

[illegible]

```

LL          IIIIII          SSSSSSSS
LL          IIIIII          SSSSSSSS
LL          II             SS
LL          II             SS
LL          II             SS
LL          II             SS
LL          II             SSSSSS
LL          II             SSSSSS
LL          II             SS
LL          II             SS
LL          II             SS
LL          II             SS
LLLLLLLLLLLL IIIIII          SSSSSSSS
LLLLLLLLLLLL IIIIII          SSSSSSSS

```



```
1 0001 0 MODULE setdevs ( IDENT = 'V04-000',
2 0002 0 ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL=LONG_RELATIVE)
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1
7 0007 1 *****
8 0008 1 *
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26 0026 1 *
27 0027 1 *
28 0028 1 *****
29 0029 1
30 0030 1 ++
31 0031 1 FACILITY: SET Command
32 0032 1
33 0033 1 ABSTRACT:
34 0034 1
35 0035 1 This module implements the DCL commands SET CARD_READER, SET
36 0036 1 MAGTAPE, and SET PRINTER.
37 0037 1
38 0038 1 ENVIRONMENT:
39 0039 1
40 0040 1 VAX/VMS operating system, user mode
41 0041 1
42 0042 1 AUTHOR: Gerry Smith 23-Feb-1983
43 0043 1
44 0044 1 Modified by:
45 0045 1
46 0046 1 V03-004 DAS0001 David Solomon 09-Jul-1984
47 0047 1 Fix truncation errors; make nonexternal refs LONG_RELATIVE.
48 0048 1
49 0049 1 V03-003 EAD0146 Elliott A. Drayton 12-Apr-1984
50 0050 1 Add code for new printer characteristics TAB, TRUNCATE,
51 0051 1 SIXELS, and BITMAPPED.
52 0052 1
53 0053 1 V03-002 EMD0046 Ellen M. Dusseault 2-Feb-1984
54 0054 1 Add new line printer characteristic, fallback to
55 0055 1 routine, SET$PRINTER.
56 0056 1
57 0057 1 V03-001 GAS0112 29-Mar-1983
```

SETDEVS
V04-000

F 13
16-Sep-1984 00:47:57
14-Sep-1984 12:09:05

VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]SETDEVS.B32;1

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:	58	0058	1	!
:	59	0059	1	!
:	60	0060	1	!
:	61	0061	1	!--

Remove all references to old CLI interface, and old
command dispatcher.


```

63 0062 1  | Include files
64 0063 1  |
65 0064 1  |
66 0065 1  | LIBRARY 'SYSS$LIBRARY:STARLET';      ! VAX/VMS common definitions
67 0066 1  |
68 0067 1  |
69 0068 1  |
70 0069 1  | Define bit settings for the flags longword
71 0070 1  |
72 0071 1  | MACRO
73 0072 1  |     set$V_log           =      0, 0, 1, 0%,      ! /LOG
74 0073 1  |
75 0074 1  | For SET CARD_READER
76 0075 1  |
77 0076 1  |     set$V_029           =      0, 1, 1, 0%,      ! /029
78 0077 1  |     set$V_026           =      0, 2, 1, 0%,      ! /026
79 0078 1  |
80 0079 1  | For SET MAGTAPE
81 0080 1  |
82 0081 1  |     set$V_dens           =      0, 1, 1, 0%,      ! /DENSITY
83 0082 1  |     set$V_1600           =      0, 2, 1, 0%,      !           =1600
84 0083 1  |     set$V_800            =      0, 3, 1, 0%,      !           =800
85 0084 1  |     set$V_6250           =      0, 4, 1, 0%,      !           =6250
86 0085 1  |     set$V_logsoft        =      0, 5, 1, 0%,      ! /LOGSOFT
87 0086 1  |     set$V_nologsoft      =      0, 6, 1, 0%,      ! /NOLOGSOFT
88 0087 1  |     set$V_files          =      0, 7, 1, 0%,      ! /SKIP=FILES
89 0088 1  |     set$V_record         =      1, 0, 1, 0%,      ! /SKIP=RECORDS
90 0089 1  |
91 0090 1  | For SET PRINTER
92 0091 1  |
93 0092 1  |     set$V_ff             =      0, 1, 1, 0%,      ! /FF
94 0093 1  |     set$V_noff           =      0, 2, 1, 0%,      ! /NOFF
95 0094 1  |     set$V_cr             =      0, 3, 1, 0%,      ! /CR
96 0095 1  |     set$V_nocr           =      0, 4, 1, 0%,      ! /NOCR
97 0096 1  |     set$V_pass           =      0, 5, 1, 0%,      ! /PASSALL
98 0097 1  |     set$V_nopass         =      0, 6, 1, 0%,      ! /NOPASSALL
99 0098 1  |     set$V_print          =      0, 7, 1, 0%,      ! /PRINTALL
100 0099 1  |     set$V_noprint        =      1, 0, 1, 0%,      ! /NOPRINTALL
101 0100 1  |     set$V_wrap           =      1, 1, 1, 0%,      ! /WRAP
102 0101 1  |     set$V_nowrap         =      1, 2, 1, 0%,      ! /NOWRAP
103 0102 1  |     set$V_lower          =      1, 3, 1, 0%,      ! /LOWERCASE (NOUPPER)
104 0103 1  |     set$V_upper          =      1, 4, 1, 0%,      ! /UPPERCASE (NOLOWER)
105 0104 1  |     set$V_lp11           =      1, 5, 1, 0%,      ! /LP11
106 0105 1  |     set$V_la180          =      1, 6, 1, 0%,      ! /LA180
107 0106 1  |     set$V_la11           =      1, 7, 1, 0%,      ! /LA11
108 0107 1  |     set$V_unk            =      2, 0, 1, 0%,      ! /UNKNOWN
109 0108 1  |     set$V_page           =      2, 1, 1, 0%,      ! /PAGE=n
110 0109 1  |     set$V_width          =      2, 2, 1, 0%,      ! /WIDTH=n
111 0110 1  |     set$V_fallback       =      2, 3, 1, 0%,      ! /FALLBACK
112 0111 1  |     set$V_nofallback     =      2, 4, 1, 0%,      ! /NOFALLBACK
113 0112 1  |     set$V_truncate       =      2, 5, 1, 0%,      ! /TRUNCATE
114 0113 1  |     set$V_notruncate     =      2, 6, 1, 0%,      ! /NOTRUNCATE
115 0114 1  |     set$V_tab            =      2, 7, 1, 0%,      ! /TAB
116 0115 1  |     set$V_notab          =      3, 0, 1, 0%,      ! /NOTAB
117 0116 1  |     set$V_sixels         =      3, 1, 1, 0%,      ! /SIXELS
118 0117 1  |     set$V_nosixels       =      3, 2, 1, 0%,      ! /NOSIXELS
119 0118 1  |     set$V_bitmapped      =      3, 3, 1, 0%,      ! /BITMAPPED
```

SETDEVS
V04-000

H 13
16-Sep-1984 00:47:57 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:09:05 [CLIUTL.SRC]SETDEVS.B32;1

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; 120 0119 1 set\$y_nobitmapped = 3, 4, 1, 0%; ! /NOBITMAPPED


```
122 0120 1 |
123 0121 1 | Table of contents
124 0122 1 |
125 0123 1 |
126 0124 1 FORWARD ROUTINE
127 0125 1   set$card_reader : NOVALUE,
128 0126 1   set$magtape : NOVALUE,
129 0127 1   set$printer : NOVALUE;
130 0128 1 |
131 0129 1 |
132 0130 1 | External routines
133 0131 1 |
134 0132 1 EXTERNAL ROUTINE
135 0133 1   lib$cvtdtb, | Convert ASCII to binary
136 0134 1   cli$get_value, | Get value from CLI
137 0135 1   cli$present; | See if qualifier is present
138 0136 1 |
139 0137 1 |
140 0138 1 |
141 0139 1 | Declare some shared messages
142 0140 1 |
143 P 0141 1 $SHR_MSGDEF (SET,119,LOCAL,
144 P 0142 1   (valerr, error),
145 0143 1   (invquaval, error));
146 0144 1 |
147 0145 1 |
148 0146 1 | Declare literals defined elsewhere
149 0147 1 |
150 0148 1 EXTERNAL LITERAL
151 0149 1   set$_writeerr, | Error modifying device
152 0150 1   set$_devset1, | characteristic set
153 0151 1   set$_devset2,
154 0152 1   set$_eofset, | EOF written on tape
155 0153 1   cli$_ivdevtype, | Wrong device type
156 0154 1   cli$_devnotfor, | Device not mounted foreign
157 0155 1   cli$_absent, | Qualifier absent
158 0156 1   cli$_negated, | Qualifier explicitly negated
159 0157 1   cli$_abkeyw; | Ambiguous keyword
160 0158 1 |
```

```
162 0159 1 GLOBAL ROUTINE set$card_reader : NOVALUE =
163 0160 2 BEGIN
164 0161 2 +-
165 0162 2 Functional description
166 0163 2
167 0164 2 This is the routine for the SET CARD_READER command. It is called
168 0165 2 from the SET command processor, and sets the characteristics of
169 0166 2 a card reader.
170 0167 2
171 0168 2 Inputs
172 0169 2 None
173 0170 2
174 0171 2 Outputs
175 0172 2 None
176 0173 2
177 0174 2 ----
178 0175 2
179 0176 2 LOCAL
180 0177 2 status, ; Status return
181 0178 2 desc : $BBLOCK[dsc$ s bln], ; General purpose descriptor
182 0179 2 flags : $BBLOCK[4] INITIAL (0), ; Flags longword
183 0180 2 info_desc : VECTOR[2], ; $GETCHN descriptor
184 0181 2 info_block : $BBLOCK[12], ; $GETCHN information block
185 0182 2 channel : WORD, ; I/O channel
186 0183 2 iosb : VECTOR[4,WORD]; ; I/O status block
187 0184 2
188 0185 2
189 0186 2 Collect the name of the card reader.
190 0187 2
191 0188 2 $init_dyndesc(desc); ; Make the descriptor dynamic
192 0189 2 cli$get_value(%ASCID 'DEVICE',
193 0190 2 desc);
194 0191 2
195 0192 2
196 0193 2 Determine what characteristics to set, and whether or not to log them.
197 0194 2
198 0195 2 flags[set$v_log] = cli$present(%ASCID 'LOG');
199 0196 2 flags[set$v_029] = cli$present(%ASCID '029');
200 0197 2 flags[set$v_026] = cli$present(%ASCID '026');
201 0198 2 IF NOT .flags[set$v_029]
202 0199 2 AND NOT .flags[set$v_026]
203 0200 2 THEN RETURN;
204 0201 2
205 0202 2
206 0203 2 Assign a channel to the device.
207 0204 2
208 P 0205 2 IF NOT (status = $ASSIGN(DEVNAM = desc,
209 0206 2 CHAN = channel))
210 0207 2 THEN
211 0208 2 BEGIN
212 0209 2 SIGNAL(set$_writeerr, 1, desc, .status);
213 0210 2 RETURN;
214 0211 2 END;
215 0212 2
216 0213 2
217 0214 2 Determine if it is indeed a card reader.
218 0215 2
```



```
219 0216 2 info_desc[0] = 12;
220 0217 info_desc[1] = info_block;
221 P 0218 IF NOT (status = $GETCHN(SCDBUF = info_desc,
222 0219 CHAN = .channel))
223 0220 THEN
224 0221 BEGIN
225 0222 SIGNAL(set$writeerr, 1, desc, .status);
226 0223 RETURN;
227 0224 END;
228 0225
229 0226 IF .info_block[dib$b_devclass] NEQU dc$_card
230 0227 THEN
231 0228 BEGIN
232 0229 SIGNAL(set$writeerr, 1, desc,
233 0230 cli$_ivdevtype);
234 0231 END;
235 0232
236 0233
237 0234 Set the specified characteristic.
238 0235
239 0236 IF .flags[set$v_026]
240 0237 THEN $BLOCK[info_block[dib$l_devchar], cr$v_tmode] = cr$k_t026;
241 0238 ELSE $BLOCK[info_block[dib$l_devchar], cr$v_tmode] = cr$k_t029;
242 0239
243 P 0240 status = $QIOW(CHAN = .channel,
244 P 0241 FUNC = IOS$SETMODE,
245 P 0242 IOSB = iosb,
246 P 0243 P1 = info_block[dib$b_devclass],
247 0244 P2 = 8);
248 0245
249 0246 IF .status
250 0247 THEN status = .iosb[0];
251 0248 IF NOT .status
252 0249 THEN
253 0250 BEGIN
254 0251 SIGNAL(set$writeerr, 1, desc, .status);
255 0252 END
256 0253 ELSE IF .flags[set$v_log]
257 0254 THEN SIGNAL(set$_devset1, 2, desc, (IF .flags[set$v_026]
258 0255 THEN %ASCII '026'
259 0256 ELSE %ASCII '029'));
260 0257
261 0258 RETURN;
262 0259 1 END;
```

```
.TITLE SETDEVS
.IDENT \V04-000\

.PSECT SPLITS,NOWRT,NOEXE,2

00 00 45 43 49 56 45 44 00000 P.AAB: .ASCII \DEVICE\<0><0>
010E0006 00008 P.AAA: .LONG 17694726
00000000 0000C .ADDRESS P.AAB
00 47 4F 4C 00010 P.AAD: .ASCII \LOG\<0>
010E0003 00014 P.AAC: .LONG 17694723
00000000 00018 .ADDRESS P.AAD
```

```
00 39 32 30 0001C P.AAF: .ASCII \029\<0>
      010E0003 00020 P.AAE: .LONG 17694723
      00000000' 00024 .ADDRESS P.AAF
00 36 32 30 00028 P.AAH: .ASCII \026\<0>
      010E0003 0002C P.AAG: .LONG 17694723
      00000000' 00030 .ADDRESS P.AAH
00 36 32 30 00034 P.AAJ: .ASCII \026\<0>
      010E0003 00038 P.AAI: .LONG 17694723
      00000000' 0003C .ADDRESS P.AAJ
00 39 32 30 00040 P.AAL: .ASCII \029\<0>
      010E0003 00044 P.AAK: .LONG 17694723
      00000000' 00048 .ADDRESS P.AAL
```

```
.EXTRN LIB$CVT_DTB, CLISGET_VALUE
.EXTRN CLISPRESNT, SET$WRITEERR
.EXTRN SET$DEVSET1, SET$DEVSET2
.EXTRN SET$EOFSET, CLIS_IVDEVTYPE
.EXTRN CLIS_DEVNOTFOR, CLIS_ABSENT
.EXTRN CLIS_NEGATED, CLIS_ABKEYW
.EXTRN SYSS$ASSIGN, SYSS$GETCHN
.EXTRN SYSS$QIOW
```

```
.PSECT $CODE$,NOWRT,2
```

```
.ENTRY SET$CARD READER, Save R2,R3,R4,R5,R6,R7
MOVAB LIB$SIGNAL, R7
MOVL #SET$WRITEERR, R6
MOVAB CLISPRESNT, R5
MOVAB P.AAA, R4
SUBL2 #40, SP
CLRL FLAGS
MOVL #34471936, DESC
CLRL DESC+4
PUSHAB DESC
PUSHL R4
CALLS #2, CLISGET_VALUE
PUSHAB P.AAC
CALLS #1, CLISPRESNT
INSV R0, #0, #1, FLAGS
PUSHAB P.AAE
CALLS #1, CLISPRESNT
INSV R0, #1, #1, FLAGS
PUSHAB P.AAG
CALLS #1, CLISPRESNT
INSV R0, #2, #1, FLAGS
BBS #1, FLAGS, 1$
BBS #2, FLAGS, 1$
RET
CLRQ -(SP)
PUSHAB CHANNEL
PUSHAB DESC
CALLS #4, SYSS$ASSIGN
MOVL R0, STATUS
BLBC STATUS, 5$
MOVL #12, INFO_DESC
MOVAB INFO_BLOCK, INFO_DESC+4
PUSHAB INFO_DESC
```

```
00FC 00000
57 00000000G 00 9E 00002
56 00000000G 8F D0 00009
55 00000000G 00 9E 00010
54 00000000' EF 9E 00017
5E 28 C2 0001E
      53 D4 00021
20 AE 020E0000 8F D0 00023
      24 AE D4 0002B
      20 AE 9F 0002E
      54 DD 00031
00000000G 00 02 FB 00033
      0C A4 9F 0003A
53 01 65 00 01 FB 0003D
      18 50 F0 00040
53 01 65 00 01 FB 00048
      24 50 F0 0004B
53 01 65 00 01 FB 00053
      02 50 F0 00056
      05 01 E0 0005B
      01 02 E0 0005F
      04 00063
      7E 7C 00064 1$:
      08 AE 9F 00066
      2C AE 9F 00069
      04 FB 0006C
00000000G 00 50 D0 00073
      52 E9 00076
      18 AE 0C D0 00079
      1C AE 0C AE 9E 0007D
      18 AE 9F 00082
```

```
0159
0160
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0219
```


			7E	7C	00085	CLRQ	-(SP)	
			7E	D4	00087	CLRL	-(SP)	
			AE	3C	00089	MOVZWL	CHANNEL, -(SP)	
	00000000G	7E	00	05	FB	CALLS	#5, SYS\$GETCHN	
		52		50	D0	MOVL	R0, STATUS	
		51		52	E9	BLBC	STATUS, 5\$	
	41	8F		AE	91	CMPB	INFO_BLOCK+4, #65	0226
				10	13	BEQL	2\$	
			00000000G	8F	DD	PUSHL	#CLIS_IVDEVTYPE	0229
				AE	9F	PUSHAB	DESC	
				01	DD	PUSHL	#1	
				56	DD	PUSHL	R6	
		67		04	FB	CALLS	#4, LIB\$SIGNAL	
06		53		02	E1	BBC	#2, FLAGS, 3\$	0236
	OC	AE		0F	8A	BICB2	#15, INFO_BLOCK	0237
				06	11	BRB	4\$	
OC	AE			01	F0	INSV	#1, #0, #4, INFO_BLOCK	0238
		00		7E	7C	CLRQ	-(SP)	0244
				7E	7C	CLRQ	-(SP)	
				08	DD	PUSHL	#8	
				AE	9F	PUSHAB	INFO_BLOCK+4	
				7E	7C	CLRQ	-(SP)	
				AE	9F	PUSHAB	IOSB	
				23	DD	PUSHL	#35	
		7E		AE	3C	MOVZWL	CHANNEL, -(SP)	
				7E	D4	CLRL	-(SP)	
	00000000G	00		0C	FB	CALLS	#12, SYS\$QIOW	
		52		50	D0	MOVL	R0, STATUS	
		07		52	E9	BLBC	STATUS, 5\$	0246
		52		AE	3C	MOVZWL	IOSB, STATUS	0247
		0B		52	E8	BLBS	STATUS, 6\$	0248
				52	DD	PUSHL	STATUS	0251
				AE	9F	PUSHAB	DESC	
				01	DD	PUSHL	#1	
				56	DD	PUSHL	R6	
				1E	11	BRB	9\$	
		1E		53	E9	BLBC	FLAGS, 10\$	0253
06		53		02	E1	BBC	#2, FLAGS, 7\$	0254
		50		A4	9E	MOVAB	P.AAI, R0	0255
				04	11	BRB	8\$	
		50		A4	9E	MOVAB	P.AAK, R0	0256
				50	DD	PUSHL	R0	
				AE	9F	PUSHAB	DESC	0254
				02	DD	PUSHL	#2	
			00000000G	8F	DD	PUSHL	#SETS_DEVSET1	
	67			04	FB	CALLS	#4, LIB\$SIGNAL	
				04	00117	RET		0259

; Routine Size: 280 bytes, Routine Base: \$CODE\$ + 0000

```
264 0260 1 GLOBAL ROUTINE set$magtape : NOVALUE =
265 0261 2 BEGIN
266 0262 2 ++
267 0263 2 Functional description
268 0264 2
269 0265 2 This is the routine for the SET MAGTAPE command. It is called
270 0266 2 from the SET command processor, and performs various actions on
271 0267 2 a magtape.
272 0268 2
273 0269 2 Inputs
274 0270 2 None
275 0271 2
276 0272 2 Outputs
277 0273 2 None
278 0274 2
279 0275 2 ----
280 0276 2
281 0277 2 LOCAL
282 0278 2 status, ! Status return
283 0279 2 density, ! Magtape density
284 0280 2 function, ! QIO function code
285 0281 2 count, ! Number of files/records to skip
286 0282 2 desc : $BBLOCK[dsc$s_bln], ! General purpose descriptor
287 0283 2 value_desc : $BBLOCK[dsc$s_bln], ! Value descriptor
288 0284 2 flags : $BBLOCK[4] INITIAL(0), ! Flags longword
289 0285 2 info_desc : VECTOR[2], ! $GETCHN descriptor
290 0286 2 info_block : $BBLOCK[12], ! $GETCHN information block
291 0287 2 channel : WORD, ! I/O channel
292 0288 2 iosb : VECTOR[4,WORD]; ! I/O status block
293 0289 2
294 0290 2 BIND mt_char = info_block[dib$l_devdepend] : $BBLOCK[4];
295 0291 2
296 0292 2 !
297 0293 2 Collect the name of the magtape.
298 0294 2
299 0295 2 $init_dyndesc(desc); ! Make the descriptors dynamic
300 0296 2 $init_dyndesc(value_desc);
301 0297 2 cli$get_value(%ASCII 'DEVICE',
302 0298 2 desc);
303 0299 2
304 0300 2 !
305 0301 2 Assign a channel to the device.
306 0302 2
307 P 0303 2 IF NOT (status = $ASSIGN(DEVNAM = desc,
308 0304 2 CHAN = channel))
309 0305 2 THEN
310 0306 2 BEGIN
311 0307 2 SIGNAL(set$_writeerr, 1, desc, .status);
312 0308 2 RETURN;
313 0309 2 END;
314 0310 2
315 0311 2 Determine if it is indeed a magtape.
316 0312 2
317 0313 2 info_desc[0] = 12; ! Set up the descriptor
318 0314 2 info_desc[1] = info_block; ! for $GETCHN
319 P 0315 2 IF NOT (status = $GETCHN($CDBUF = info_desc,
320 0316 2 CHAN = .channel)) ! Issue the $GETCHN, asking for
! secondary characteristics (in
```



```
321 0317 2 THEN                                ! case it's spooled)
322 0318 2 BEGIN                                ! If a problem, signal it.
323 0319 2 SIGNAL(set$_writeerr, 1, desc, .status);
324 0320 2 RETURN;
325 0321 2 END;
326 0322 2
327 0323 2 IF .info_block[dib$b_devclass] NEQU dc$_tape ! If not a tape,
328 0324 2 THEN ! signal that it's not.
329 0325 2 BEGIN
330 0326 2 SIGNAL(set$_writeerr, 1, desc,
331 0327 2 cli$_ivdevtype);
332 0328 2 RETURN;
333 0329 2 END;
334 0330 2 IF NOT .info_block[dev$v_mnt] ! If not mounted,
335 0331 2 THEN ! signal an error
336 0332 2 BEGIN
337 0333 2 SIGNAL(set$_writeerr, 1, desc, ss$_devnotmount);
338 0334 2 RETURN;
339 0335 2 END;
340 0336 2 IF NOT .info_block[dev$v_for] ! If not mounted foreign,
341 0337 2 THEN ! signal an error
342 0338 2 BEGIN
343 0339 2 SIGNAL(set$_writeerr, 1, desc, cli$_devnotfor);
344 0340 2 RETURN;
345 0341 2 END;
346 0342 2
347 0343 2
348 0344 2 ! Determine whether to log the actions taken.
349 0345 2
350 0346 2 flags[set$v_log] = cli$present(%ASCID 'LOG');
351 0347 2
352 0348 2
353 0349 2 ! Density
354 0350 2
355 0351 3 IF (flags[set$v_dens] = cli$get_value(%ASCID 'DENSITY', value_desc))
356 0352 2 THEN
357 0353 3 BEGIN
358 0354 4 IF NOT (status = lib$cvtdtb(.value_desc[dsc$w_length],
359 0355 4 .value_desc[dsc$a_pointer],
360 0356 4 density))
361 0357 3 THEN
362 0358 4 BEGIN
363 0359 4 SIGNAL(set$_invquaval, 2, value_desc, %ASCID 'DENSITY');
364 0360 4 RETURN;
365 0361 4 END;
366 0362 3 IF .density EQL 1600
367 0363 3 THEN
368 0364 4 BEGIN
369 0365 4 flags[set$v_1600] = 1;
370 0366 4 mt_char[mt$v_density] = mt$k_pe_1600;
371 0367 4 END
372 0368 3 ELSE IF .density EQL 800
373 0369 3 THEN
374 0370 4 BEGIN
375 0371 4 flags[set$v_800] = 1;
376 0372 4 mt_char[mt$v_density] = mt$k_nrzi_800;
377 0373 4 END
```

```
378 0374 3 ELSE IF .density EQL 6250
379 0375 3 THEN
380 0376 4 BEGIN
381 0377 4 flags[set$y_6250] = 1;
382 0378 4 mt_char[mt$y_density] = mt$k_gcr_6250;
383 0379 4 END
384 0380 3 ELSE
385 0381 4 BEGIN
386 0382 4 SIGNAL(set$_invquaval, 2, desc, %ASCID 'DENSITY');
387 0383 4 RETURN;
388 0384 3 END;
389 0385 3 END;
390 0386 2
391 0387 2
392 0388 2 / [NO] LOGSOFT is only good for TU78's
393 0389 2
394 0390 2 IF (status = cli$present(%ASCID 'LOGSOFT')) NEQ cli$_absent
395 0391 2 THEN
396 0392 3 BEGIN
397 0393 3 IF .status NEQ cli$_negated
398 0394 3 THEN
399 0395 4 BEGIN
400 0396 4 flags[set$y_logsoft] = 1;
401 0397 4 mt_char[mt$y_logsoft] = 1;
402 0398 4 END
403 0399 3 ELSE
404 0400 4 BEGIN
405 0401 4 flags[set$y_nologsoft] = 1;
406 0402 4 mt_char[mt$y_logsoft] = 0;
407 0403 4 END;
408 0404 2 END;
409 0405 2
410 0406 2 IF .flags[set$y_dens]
411 0407 2 OR .flags[set$y_logsoft]
412 0408 2 OR .flags[set$y_nologsoft]
413 0409 2 THEN
414 0410 3 BEGIN
415 P 0411 3 status = $QIOW(CHAN = .channel,
416 P 0412 3 FUNC = IOS$ SETMODE,
417 P 0413 3 IOSB = iosb,
418 P 0414 3 P1 = info_block[dib$b_devclass],
419 0415 3 P2 = 8);
420 0416 3
421 0417 3 IF .status
422 0418 3 THEN status = .iosb[0];
423 0419 3 IF NOT .status
424 0420 3 THEN SIGNAL(set$_writeerr, 1, desc, .status)
425 0421 3 ELSE IF .flags[set$y_log]
426 0422 3 THEN
427 0423 4 BEGIN
428 0424 4 IF .flags[set$y_dens]
429 0425 4 THEN SIGNAL(set$_devset2, 3, desc, %ASCID 'DENSITY',
430 0426 4 (IF .flags[set$y_1600]
431 0427 4 THEN %ASCID '1600'
432 0428 4 ELSE IF .flags[set$y_800]
433 0429 4 THEN %ASCID '800'
434 0430 4 ELSE %ASCID '6250'));
```



```
435      0431 3      END;
436      0432 3      END;
437      0433 2
438      0434 2
439      0435 2      The next set of modifications to perform are positional changes, rather
440      0436 2      than changes to the characteristics.
441      0437 2
442      0438 2      IF cli$present(%ASCID 'END_OF_FILE')
443      0439 2      THEN
444      0440 3      BEGIN
445      0441 3      INCR index FROM 1 TO 2 DO
446      0442 4      BEGIN
447      0443 4      status = $QIOW(CHAN = .channel,
448      0444 4      FUNC = io$_writemark,
449      0445 4      IOSB = iosb);
450      0446 4      IF .status
451      0447 4      THEN status = .iosb[0];
452      0448 4      IF NOT .status
453      0449 4      THEN EXITLOOP;
454      0450 3      END;
455      0451 3      IF NOT .status
456      0452 3      THEN SIGNAL(set$_writeerr, 1, desc, .status)
457      0453 3      ELSE IF .flags[set$_log]
458      0454 3      THEN SIGNAL(set$_eofset, 1, desc);
459      0455 2      END;
460      0456 2
461      0457 2      IF cli$present(%ASCID 'SKIP.END_OF_TAPE')
462      0458 2      THEN
463      0459 3      BEGIN
464      0460 3      DO
465      0461 4      BEGIN
466      0462 4      status = $QIOW(CHAN = .channel,
467      0463 4      FUNC = io$_skipfile,
468      0464 4      IOSB = iosb,
469      0465 4      P1 = 32767);
470      0466 4      IF .status
471      0467 4      THEN status = .iosb[0];
472      0468 4      IF NOT .status
473      0469 4      THEN EXITLOOP;
474      0470 4      END
475      0471 3      UNTIL .SBBLOCK[iosb[2], mt$_bot];
476      0472 3      IF NOT .status
477      0473 3      THEN SIGNAL(set$_writeerr, 1, desc, .status)
478      0474 3      ELSE IF .flags[set$_log]
479      0475 3      THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'END_OF_TAPE');
480      0476 2      END;
481      0477 2
482      0478 2      function = 0;
483      0479 2      IF cli$get_value(%ASCID 'SKIP.FILES', value_desc)
484      0480 2      THEN
485      0481 3      BEGIN
486      0482 3      function = io$_skipfile;
487      0483 3      flags[set$_files] = 1;
488      0484 4      IF NOT (status = lib$cvt_dtb(.value_desc[dsc$_length],
489      0485 4      .value_desc[dsc$_a_pointer],
490      0486 4      count))
491      0487 3      THEN
```

```

492      0488 4      BEGIN
493      0489 4      SIGNAL(set$_invquaval, 2, value_desc, %ASCID 'SKIP');
494      0490 4      RETURN;
495      0491 4      END;
496      0492 3      END
497      0493 2      ELSE IF cli$get_value(%ASCID 'SKIP.BLOCKS', value_desc)
498      0494 2      THEN
499      0495 2      BEGIN
500      0496 3      function = io$_skiprecord;
501      0497 3      flags[set$_v_record] = 1;
502      0498 4      IF NOT (status = lib$cvtdtb(.value_desc[dsc$_length],
503      0499 4      .value_desc[dsc$_pointer],
504      0500 4      count))
505      0501 3      THEN
506      0502 4      BEGIN
507      0503 4      SIGNAL(set$_invquaval, 2, value_desc, %ASCID 'SKIP');
508      0504 4      RETURN
509      0505 4      END;
510      0506 3      END
511      0507 2      ELSE IF cli$get_value(%ASCID 'SKIP.RECORDS', value_desc)
512      0508 2      THEN
513      0509 2      BEGIN
514      0510 3      function = io$_skiprecord;
515      0511 3      flags[set$_v_record] = 1;
516      0512 4      IF NOT (status = lib$cvtdtb(.value_desc[dsc$_length],
517      0513 4      .value_desc[dsc$_pointer],
518      0514 4      count))
519      0515 3      THEN
520      0516 4      BEGIN
521      0517 4      SIGNAL(set$_invquaval, 2, value_desc, %ASCID 'SKIP');
522      0518 4      RETURN
523      0519 4      END
524      0520 2      END;
525      0521 2      IF .function NEQ 0
526      0522 2      THEN
527      0523 2      BEGIN
528      0524 3      status = $QIOW(CHAN = .channel,
529      0525 3      FUNC = .function,
530      0526 3      IOSB = iosb,
531      0527 3      P1 = .count);
532      0528 3      IF .status
533      0529 3      THEN status = .iosb[0];
534      0530 3      IF NOT .status
535      0531 3      THEN
536      0532 4      BEGIN
537      0533 4      SIGNAL(set$_writeerr, 1, desc, .status);
538      0534 4      RETURN;
539      0535 4      END;
540      0536 3      IF the skip function was negative, then the tape must be re-positioned
541      0537 3      forward, over the end mark.
542      0538 3      IF .count LSS 0
543      0539 3      THEN
544      0540 4      BEGIN
545      0541 4      status = $QIOW(CHAN = .channel,
546      0542 4
547      0543 4
548      0544 4

```



```
549 P 0545 4 FUNC = function,
550 P 0546 4 IOSB = iosb,
551 0547 4 P1 = 1);
552 0548 4 IF .status
553 0549 4 THEN status = .iosb[0];
554 0550 4 IF NOT .status
555 0551 4 THEN
556 0552 4 BEGIN
557 0553 4 SIGNAL(set$_writeerr, 1, desc, .status);
558 0554 4 RETURN;
559 0555 4 END;
560 0556 4 END;
561 0557 4
562 0558 4
563 0559 4 If /LOG, then tell what was done.
564 0560 4
565 0561 4
566 0562 4 IF .flags[set$_v_log]
567 0563 4 THEN SIGNAL(set$_devset2, 3, desc,
568 0564 4 (IF .flags[set$_v_files]
569 0565 4 THEN %ASCII 'SKIP_FILES'
570 0566 4 ELSE %ASCII 'SKIP_RECORDS'),
571 0567 4 value_desc);
572 0568 4 END;
573 0569 4
574 0570 4
575 0571 4 Lastly, check for /REWIND or /UNLOAD.
576 0572 4
577 0573 4 IF cli$present(%ASCII 'REWIND')
578 0574 4 THEN
579 0575 4 BEGIN
580 0576 4 status = $QIOW(CHAN = .channel,
581 0577 4 IOSB = iosb,
582 0578 4 FUNC = io$_rewind);
583 0579 4
584 0580 4 IF .status
585 0581 4 THEN status = .iosb[0];
586 0582 4 IF NOT .status
587 0583 4 THEN
588 0584 4 BEGIN
589 0585 4 SIGNAL(set$_writeerr, 1, desc, .status);
590 0586 4 END
591 0587 4 ELSE IF .flags[set$_v_log]
592 0588 4 THEN SIGNAL(set$_devset1, 2, desc, %ASCII 'REWIND');
593 0589 4 END;
594 0590 4
595 0591 4 IF cli$present(%ASCII 'UNLOAD')
596 0592 4 THEN
597 0593 4 BEGIN
598 0594 4 status = $QIOW(CHAN = .channel,
599 0595 4 IOSB = iosb,
600 0596 4 FUNC = io$_rewindoff);
601 0597 4
602 0598 4 IF .status
603 0599 4 THEN status = .iosb[0];
604 0600 4 IF NOT .status
605 0601 4 THEN SIGNAL(set$_writeerr, 1, desc, .status)
606 0602 4 ELSE IF .flags[set$_v_log]
607 0603 4 THEN SIGNAL(set$_devset1, 2, desc, %ASCII 'UNLOAD');
```

```

: 606
: 607
: 608
: 609
0602 2 END;
0603 2
0604 2 RETURN;
0605 1 END;

```

```

.PSECT SPLITS,NOWRT,NOEXE,2

00 00 45 43 49 56 45 44 0004C P.AAN: .ASCII \DEVICE\<0><0>
      010E0006 00054 P.AAM: .LONG 17694726
      00000000 00058 .ADDRESS P.AAN
      00 47 4F 4C 0005C P.AAP: .ASCII \LOG\<0>
      010E0003 00060 P.AAO: .LONG 17694723
      00000000 00064 .ADDRESS P.AAP
00 59 54 49 53 4E 45 44 00068 P.AAR: .ASCII \DENSITY\<0>
      010E0007 00070 P.AAQ: .LONG 17694727
      00000000 00074 .ADDRESS P.AAR
00 59 54 49 53 4E 45 44 00078 P.AAT: .ASCII \DENSITY\<0>
      010E0007 00080 P.AAS: .LONG 17694727
      00000000 00084 .ADDRESS P.AAT
00 59 54 49 53 4E 45 44 00088 P.AAV: .ASCII \DENSITY\<0>
      010E0007 00090 P.AAU: .LONG 17694727
      00000000 00094 .ADDRESS P.AAV
00 54 46 4F 53 47 4F 4C 00098 P.AAX: .ASCII \LOGSOFT\<0>
      010E0007 000A0 P.AAW: .LONG 17694727
      00000000 000A4 .ADDRESS P.AAX
00 59 54 49 53 4E 45 44 000A8 P.AAZ: .ASCII \DENSITY\<0>
      010E0007 000B0 P.AAY: .LONG 17694727
      00000000 000B4 .ADDRESS P.AAZ
      30 30 36 31 000B8 P.ABB: .ASCII \1600\
      010E0004 000BC P.ABA: .LONG 17694724
      00000000 000C0 .ADDRESS P.ABB
      00 30 30 38 000C4 P.ABD: .ASCII \800\<0>
      010E0003 000C8 P.ABC: .LONG 17694723
      00000000 000CC .ADDRESS P.ABD
      30 35 32 36 000D0 P.ABF: .ASCII \6250\
      010E0004 000D4 P.ABE: .LONG 17694724
      00000000 000D8 .ADDRESS P.ABF
00 45 4C 49 46 5F 46 4F 5F 44 4E 45 2E 50 49 4B 53 000DC P.ABH: .ASCII \END OF FILE\<0>
      010E000B 000E8 P.ABG: .LONG 17694731
      00000000 000EC .ADDRESS P.ABH
50 41 54 5F 46 4F 5F 44 4E 45 2E 50 49 4B 53 000F0 P.ABJ: .ASCII \SKIP.END_OF_TAPE\
      010E0010 00100 P.ABI: .LONG 17694736
      00000000 00104 .ADDRESS P.ABI
00 45 50 41 54 5F 46 4F 5F 44 4E 45 00108 P.ABL: .ASCII \END OF TAPE\<0>
      010E000B 00114 P.ABK: .LONG 17694731
      00000000 00118 .ADDRESS P.ABL
00 00 53 45 4C 49 46 2E 50 49 4B 53 0011C P.ABN: .ASCII \SKIP.FILES\<0><0>
      010E000A 00128 P.ABM: .LONG 17694730
      00000000 0012C .ADDRESS P.ABN
      50 49 4B 53 00130 P.ABP: .ASCII \SKIP\
      010E0004 00134 P.ABO: .LONG 17694724
      00000000 00138 .ADDRESS P.ABP
00 53 4B 43 4F 4C 42 2E 50 49 4B 53 0013C P.ABR: .ASCII \SKIP.BLOCKS\<0>
      010E000B 00148 P.ABQ: .LONG 17694731

```



```
53 44 52 4F 43 45 52 2E 50 49 4B 53 0014C .ADDRESS P.ABR
010E0004 00150 P.ABT: .ASCII \SKIP\
00000000 00154 P.ABS: .LONG 17694724
53 44 52 4F 43 45 52 2E 50 49 4B 53 00158 .ADDRESS P.ABT
010E000C 0015C P.ABV: .ASCII \SKIP.RECORDS\
00000000 00168 P.ABU: .LONG 17694732
50 49 4B 53 0016C .ADDRESS P.ABV
010E0004 00170 P.ABX: .ASCII \SKIP\
00000000 00174 P.ABW: .LONG 17694724
00 00 53 45 4C 49 46 5F 50 49 4B 53 00178 .ADDRESS P.ABX
010E000A 0017C P.ABZ: .ASCII \SKIP.FILES\<0><0>
00000000 00188 P.ABY: .LONG 17694730
53 44 52 4F 43 45 52 5F 50 49 4B 53 0018C .ADDRESS P.ABZ
010E000C 00190 P.ACB: .ASCII \SKIP.RECORDS\
00000000 0019C P.ACA: .LONG 17694732
00 00 44 4E 49 57 45 52 001A0 .ADDRESS P.ACB
010E0006 001A4 P.ACD: .ASCII \REWIND\<0><0>
00000000 001AC P.ACC: .LONG 17694726
00 00 44 4E 49 57 45 52 001B0 .ADDRESS P.ACD
010E0006 001B4 P.ACF: .ASCII \REWIND\<0><0>
00000000 001BC P.ACE: .LONG 17694726
00 00 44 41 4F 4C 4E 55 001C0 .ADDRESS P.ACF
010E0006 001C4 P.ACH: .ASCII \UNLOAD\<0><0>
00000000 001CC P.ACG: .LONG 17694726
00 00 44 41 4F 4C 4E 55 001D0 .ADDRESS P.ACH
010E0006 001D4 P.ACJ: .ASCII \UNLOAD\<0><0>
00000000 001DC P.ACI: .LONG 17694726
00000000 001E0 .ADDRESS P.ACJ
```

```
OFFC 00000
5B 00000000G 00 9E 00002
5A 00000000G 8F D0 00009
59 00000000G 00 9E 00010
58 00000000G 00 9E 00017
57 00000000G 00 9E 0001E
56 00000000G 00 9E 00025
55 00000000' EF 9E 0002C
5E 3C C2 00033
08 AE D4 00036
34 AE 020E0000 8F D0 00039
38 AE D4 00041
2C AE 020E0000 8F D0 00044
30 AE D4 0004C
34 AE 9F 0004F
55 DD 00052
69 02 FB 00054
7E 7C 00057
08 AE 9F 00059
40 AE 9F 0005C
00000000G 00 04 FB 0005F
52 50 D0 00066
20 52 E9 00069

.PSECT $CODE$,NOWRT,2
.ENTRY SET$MAGTAPE, Save R2,R3,R4,R5,R6,R7,R8,R9,- R10,R11
MOVAB LIB$CVT DTB, R11
MOVL #SET$ WRITEERR, R10
MOVAB CLISGET VALUE, R9
MOVAB CLISPRESENT, R8
MOVAB SYSSQIOW, R7
MOVAB LIB$SIGNAL, R6
MOVAB P.AAM, R5
SUBL2 #60, SP
CLRL FLAGS
MOVL #34471936, DESC
CLRL DESC+4
MOVL #34471936, VALUE_DESC
CLRL VALUE_DESC+4
PUSHAB DESC
PUSHL R5
CALLS #2, CLISGET_VALUE
CLRQ -(SP)
PUSHAB CHANNEL
PUSHAB DESC
CALLS #4, SYSS$ASSIGN
MOVL R0, STATUS
BLBC STATUS, 18

0261
0295
0296
0297
0304
```

24	AE		18	OC	DO	0006C	MOVL	#12, INFO_DESC	0313		
28	AE		24	AE	9E	00070	MOVAB	INFO_BLOCK, INFO_DESC+4	0314		
				AE	9F	00075	PUSHAB	INFO_DESC	0316		
				7E	7C	00078	CLRG	-(SP)			
				7E	D4	0007A	CLRL	-(SP)			
	54		10	AE	3C	0007C	MOVZWL	CHANNEL, R4			
				54	DD	00080	PUSHL	R4			
00000000G	00			05	FB	00082	CALLS	#5, SYSSGETCHN			
	52			50	DO	00089	MOVL	R0, STATUS			
	03			52	E8	0008C	BLBS	STATUS, 2\$			
			038B	31	0008F	1\$:	BRW	44\$			
	02		1C	AE	91	00092	2\$:	CMPB	INFO_BLOCK+4, #2	0323	
				08	13	00096	BEQL	3\$			
		00000000G		8F	DD	00098	PUSHL	#CLIS_IVDEVTYPE	0326		
				15	11	0009E	BRB	5\$			
06	1A			03	E0	000A0	3\$:	BBS	#3, INFO_BLOCK+2, 4\$	0330	
				7E	7C	8F	9A	000A5	MOVZBL	#124, -(SP)	0333
				0A	11	000A9	BRB	5\$			
	10			AE	E8	000AB	4\$:	BLBS	INFO_BLOCK+3, 6\$	0336	
		00000000G		8F	DD	000AF	PUSHL	#CLIS_DEVNOTFOR	0339		
				38	AE	9F	000B5	5\$:	PUSHAB	DESC	
				01	DD	000B8	PUSHL	#1			
				5A	DD	000BA	PUSHL	R10			
			0376	31	000BC	BRW	46\$				
			OC	A5	9F	000BF	6\$:	PUSHAB	P.AAO	0346	
08	AE			01	FB	000C2	CALLS	#1, CLISPRESENT			
				50	FO	000C5	INSV	R0, #0, #1, FLAGS			
			2C	AE	9F	000CB	PUSHAB	VALUE_DESC	0351		
			1C	A5	9F	000CE	PUSHAB	P.AAQ			
08	AE			02	FB	000D1	CALLS	#2, CLISGET_VALUE			
				50	FO	000D4	INSV	R0, #1, #1, -FLAGS			
				50	E9	000DA	BLBC	R0, 11\$			
			04	AE	9F	000DD	PUSHAB	DENSITY	0354		
			34	AE	DD	000E0	PUSHL	VALUE_DESC+4	0355		
				AE	3C	000E3	MOVZWL	VALUE_DESC, -(SP)	0354		
				03	FB	000E7	CALLS	#3, LIBSCVT_DTB			
				50	DO	000EA	MOVL	R0, STATUS			
				52	E8	000ED	BLBS	STATUS, 7\$			
			2C	A5	9F	000F0	PUSHAB	P.AAS	0359		
			0228	31	000F3	BRW	32\$				
	00000640		04	AE	D1	000F6	7\$:	CMPL	DENSITY, #1600	0362	
				OC	12	000FE	BNEQ	8\$			
21	AE			04	88	00100	BISB2	#4, FLAGS	0365		
				04	FO	00104	INSV	#4, #0, #5, MT_CHAR+1	0366		
				35	11	0010A	BRB	11\$	0362		
	00000320		04	AE	D1	0010C	8\$:	CMPL	DENSITY, #800	0368	
				OC	12	00114	BNEQ	9\$			
				08	88	00116	BISB2	#8, FLAGS	0371		
21	AE			03	FO	0011A	INSV	#3, #0, #5, MT_CHAR+1	0372		
				1F	11	00120	BRB	11\$	0368		
	0000186A		04	AE	D1	00122	9\$:	CMPL	DENSITY, #6250	0374	
				OC	12	0012A	BNEQ	10\$			
				10	88	0012C	BISB2	#16, FLAGS	0377		
				05	FO	00130	INSV	#5, #0, #5, MT_CHAR+1	0378		
				09	11	00136	BRB	11\$	0374		
			3C	A5	9F	00138	10\$:	PUSHAB	P.AAU	0382	
21	AE			38	AE	9F	0013B	PUSHAB	DESC		

			4C	01E0	31	0013E	BRW	33\$		
		68		A5	9F	00141	PUSHAB	P.AAW		0390
		52		01	FB	00144	CALLS	#1, CLISPRESNT		
	00000000G	8F		50	D0	00147	MOVL	R0, STATUS		
				52	D1	0014A	CMPL	STATUS, #CLIS_ABSENT		
	00000000G	8F		1E	13	00151	BEQL	13\$		
				52	D1	00153	CMPL	STATUS, #CLIS_NEGATED		0393
				0B	13	0015A	BEQL	12\$		
	08	AE		20	88	0015C	BISB2	#32, FLAGS		0396
	21	AE	40	8F	88	00160	BISB2	#64, MT_CHAR+1		0397
				0A	11	00165	BRB	13\$		0393
	08	AE	40	8F	88	00167	BISB2	#64, FLAGS		0401
	21	AE	40	8F	8A	0016C	BICB2	#64, MT_CHAR+1		0402
0A	08	AE		01	E0	00171	BBS	#1, FLAGS, 14\$		0406
05	08	AE		05	E0	00176	BBS	#5, FLAGS, 14\$		0407
69	08	AE		06	E1	0017B	BBC	#6, FLAGS, 20\$		0408
				7E	7C	00180	CLRQ	-(SP)		0415
				7E	7C	00182	CLRQ	-(SP)		
				08	DD	00184	PUSHL	#8		
			30	AE	9F	00186	PUSHAB	INFO_BLOCK+4		
			30	7E	7C	00189	CLRQ	-(SP)		
				AE	9F	0018B	PUSHAB	IOSB		
				23	DD	0018E	PUSHL	#35		
				54	DD	00190	PUSHL	R4		
				7E	D4	00192	CLRL	-(SP)		
	67			0C	FB	00194	CALLS	#12, SYSSQIOW		
	52			50	D0	00197	MOVL	R0, STATUS		
	07			52	E9	0019A	BLBC	STATUS, 15\$		0417
	52		10	AE	3C	0019D	MOVZWL	IOSB, STATUS		0418
	0E			52	E8	001A1	BLBS	STATUS, 16\$		0419
				52	DD	001A4	PUSHL	STATUS		0420
			38	AE	9F	001A6	PUSHAB	DESC		
				01	DD	001A9	PUSHL	#1		
				5A	DD	001AB	PUSHL	R10		
	66			04	FB	001AD	CALLS	#4, LIBSSIGNAL		
				37	11	001B0	BRB	20\$		
	33		08	AE	E9	001B2	BLBC	FLAGS, 20\$		0421
2E	08	AE		01	E1	001B6	BBC	#1, FLAGS, 20\$		0424
06	08	AE		02	E1	001BB	BBC	#2, FLAGS, 17\$		0426
		50	68	A5	9E	001C0	MOVAB	P.ABA, R0		0427
				10	11	001C4	BRB	19\$		
	06	AE		03	E1	001C6	BBC	#3, FLAGS, 18\$		0428
		50	74	A5	9E	001CB	MOVAB	P.ABC, R0		0429
				05	11	001CF	BRB	19\$		
		50	0080	C5	9E	001D1	MOVAB	P.ABE, R0		0430
				50	DD	001D6	PUSHL	R0		0428
			5C	A5	9F	001D8	PUSHAB	P.AAY		0425
			3C	AE	9F	001DB	PUSHAB	DESC		
				03	DD	001DE	PUSHL	#3		
	00000000G			8F	DD	001E0	PUSHL	#SET\$ DEVSET2		
				05	FB	001E6	CALLS	#5, LIBSSIGNAL		
	66		0094	C5	9F	001E9	PUSHAB	P.ABG		0438
				01	FB	001ED	CALLS	#1, CLISPRESNT		
	68			50	E9	001F0	BLBC	R0, 24\$		
	4B			01	D0	001F3	MOVL	#1, INDEX		0441
	53			7E	7C	001F6	CLRQ	-(SP)		0445
				7E	7C	001F8	CLRQ	-(SP)		

DB

		7E	7C	001FA	CLRQ	-(SP)	
		7E	7C	001FC	CLRQ	-(SP)	
	30	AE	9F	001FE	PUSHAB	IOSB	
		1C	DD	00201	PUSHL	#28	
		54	DD	00203	PUSHL	R4	
		7E	D4	00205	CLRL	-(SP)	
67		0C	FB	00207	CALLS	#12, SYSSQIOW	
52		50	DD	0020A	MOVL	R0, STATUS	
0E		52	E9	0020D	BLBC	STATUS, 22\$	0446
52	10	AE	3C	00210	MOVZWL	IOSB, STATUS	0447
07		52	E9	00214	BLBC	STATUS, 22\$	0448
53		02	F3	00217	AOBLEQ	#2, INDEX, 21\$	0441
0E		52	E8	0021B	BLBS	STATUS, 23\$	0451
		52	DD	0021E	PUSHL	STATUS	0452
	38	AE	9F	00220	PUSHAB	DESC	
		01	DD	00223	PUSHL	#1	
		5A	DD	00225	PUSHL	R10	
66		04	FB	00227	CALLS	#4, LIBSSIGNAL	
		12	11	0022A	BRB	24\$	
0E	08	AE	E9	0022C	BLBC	FLAGS, 24\$	0453
	34	AE	9F	00230	PUSHAB	DESC	0454
		01	DD	00233	PUSHL	#1	
	00000000G	8F	DD	00235	PUSHL	#SETS_EOFSET	
66		03	FB	0023B	CALLS	#3, LIBSSIGNAL	
	00AC	C5	9F	0023E	PUSHAB	P.ABI	0457
68		01	FB	00242	CALLS	#1, CLISPRESNT	
4E		50	E9	00245	BLBC	R0, 29\$	
		7E	7C	00248	CLRQ	-(SP)	0465
		7E	7C	0024A	CLRQ	-(SP)	
		7E	D4	0024C	CLRL	-(SP)	
7E	7FFF	8F	3C	0024E	MOVZWL	#32767, -(SP)	
		7E	7C	00253	CLRQ	-(SP)	
	30	AE	9F	00255	PUSHAB	IOSB	
		25	DD	00258	PUSHL	#37	
		54	DD	0025A	PUSHL	R4	
		7E	D4	0025C	CLRL	-(SP)	
67		0C	FB	0025E	CALLS	#12, SYSSQIOW	
52		50	DD	00261	MOVL	R0, STATUS	
0E		52	E9	00264	BLBC	STATUS, 26\$	0466
52	10	AE	3C	00267	MOVZWL	IOSB, STATUS	0467
07		52	E9	0026B	BLBC	STATUS, 26\$	0468
D6	16	AE	E9	0026E	BLBC	IOSB+6, 25\$	0471
0B		52	E8	00272	BLBS	STATUS, 27\$	0472
		52	DD	00275	PUSHL	STATUS	0473
	38	AE	9F	00277	PUSHAB	DESC	
		01	DD	0027A	PUSHL	#1	
		5A	DD	0027C	PUSHL	R10	
		13	11	0027E	BRB	28\$	
12	08	AE	E9	00280	BLBC	FLAGS, 29\$	0474
	00C0	C5	9F	00284	PUSHAB	P.ABK	0475
	38	AE	9F	00288	PUSHAB	DESC	
		02	DD	0028B	PUSHL	#2	
	00000000G	8F	DD	0028D	PUSHL	#SETS_DEVSET1	
66		04	FB	00293	CALLS	#4, LIBSSIGNAL	
		53	D4	00296	CLRL	FUNCTION	0478
	2C	AE	9F	00298	PUSHAB	VALUE_DESC	0479
	00D4	C5	9F	0029B	PUSHAB	P.ABM	

08	69 21 53 AE	80 OC 34 34	02 50 25 8F AE AE 03 50 52 C5 58 AE C5	FB 0029F E9 002A2 D0 002A5 88 002A8 9F 002AD DD 002B0 3C 002B3 FB 002B7 D0 002BA E8 002BD 9F 002C0 11 002C4 9F 002C6 9F 002C9	CALLS #2, CLISGET_VALUE BLBC R0, 30\$ MOVL #37, FUNCTION BISB2 #128, FLAGS PUSHAB COUNT PUSHL VALUE_DESC+4 MOVZWL VALUE_DESC, -(SP) CALLS #3, LIB\$CVT_DTB MOVL R0, STATUS BLBS STATUS, 34\$ PUSHAB P.ABO BRB 32\$ PUSHAB VALUE_DESC PUSHAB P.ABQ	0482 0483 0484 0485 0484	
	7E 6B 52 6C		00E0 2C 00F4	02 50 26 01 AE AE 03 50 52 C5 2B AE C5	FB 002CD E9 002D0 D0 002D3 88 002D6 9F 002DA DD 002DD 3C 002E0 FB 002E4 D0 002E7 E8 002EA 9F 002ED 11 002F1 9F 002F3 9F 002F6	30\$: CALLS #2, CLISGET_VALUE BLBC R0, 31\$ MOVL #38, FUNCTION BISB2 #1, FLAGS+1 PUSHAB COUNT PUSHL VALUE_DESC+4 MOVZWL VALUE_DESC, -(SP) CALLS #3, LIB\$CVT_DTB MOVL R0, STATUS BLBS STATUS, 34\$ PUSHAB P.ABS BRB 32\$ PUSHAB VALUE_DESC PUSHAB P.ABU	0489 0493
09	69 20 53 AE	OC 34 34	02 50 26 01 AE AE 03 50 52 C5 2B AE C5	FB 002CD E9 002D0 D0 002D3 88 002D6 9F 002DA DD 002DD 3C 002E0 FB 002E4 D0 002E7 E8 002EA 9F 002ED 11 002F1 9F 002F3 9F 002F6	31\$: CALLS #2, CLISGET_VALUE BLBC R0, 31\$ MOVL #38, FUNCTION BISB2 #1, FLAGS+1 PUSHAB COUNT PUSHL VALUE_DESC+4 MOVZWL VALUE_DESC, -(SP) CALLS #3, LIB\$CVT_DTB MOVL R0, STATUS BLBS STATUS, 34\$ PUSHAB P.ABS BRB 32\$ PUSHAB VALUE_DESC PUSHAB P.ABU	0496 0497 0498 0499 0498	
	7E 6B 52 3F		0100 2C 0114	02 50 26 01 AE AE 03 50 52 C5 2B AE C5	FB 002FA E9 002FD D0 00300 88 00303 9F 00307 DD 0030A 3C 0030D FB 00311 D0 00314 E8 00317 9F 0031A 9F 0031E DD 00321 DD 00323	32\$: CALLS #2, CLISGET_VALUE BLBC R0, 34\$ MOVL #38, FUNCTION BISB2 #1, FLAGS+1 PUSHAB COUNT PUSHL VALUE_DESC+4 MOVZWL VALUE_DESC, -(SP) CALLS #3, LIB\$CVT_DTB MOVL R0, STATUS BLBS STATUS, 34\$ PUSHAB P.ABW PUSHAB VALUE_DESC PUSHL #2 PUSHL #7803690	0503 0507
09	69 2C 53 AE	OC 34 34	02 50 26 01 AE AE 03 50 52 C5 2B AE C5	FB 002FA E9 002FD D0 00300 88 00303 9F 00307 DD 0030A 3C 0030D FB 00311 D0 00314 E8 00317 9F 0031A 9F 0031E DD 00321 DD 00323	33\$: CALLS #2, CLISGET_VALUE BLBC R0, 34\$ MOVL #38, FUNCTION BISB2 #1, FLAGS+1 PUSHAB COUNT PUSHL VALUE_DESC+4 MOVZWL VALUE_DESC, -(SP) CALLS #3, LIB\$CVT_DTB MOVL R0, STATUS BLBS STATUS, 34\$ PUSHAB P.ABW PUSHAB VALUE_DESC PUSHL #2 PUSHL #7803690	0510 0511 0512 0513 0512	
	7E 6B 52 12		0120 30 0077132A	02 50 26 01 AE AE 03 50 52 C5 2B AE C5	FB 00311 D0 00314 E8 00317 9F 0031A 9F 0031E DD 00321 DD 00323	34\$: CALLS #2, CLISGET_VALUE BLBC R0, 34\$ MOVL #38, FUNCTION BISB2 #1, FLAGS+1 PUSHAB COUNT PUSHL VALUE_DESC+4 MOVZWL VALUE_DESC, -(SP) CALLS #3, LIB\$CVT_DTB MOVL R0, STATUS BLBS STATUS, 34\$ PUSHAB P.ABW PUSHAB VALUE_DESC PUSHL #2 PUSHL #7803690	0517
			0109	31 00329	BRW 46\$		
			53	D5 0032C	TSTL FUNCTION		0522
			76	13 0032E	BEQL 39\$		
			7E	7C 00330	CLRQ -(SP)		0528
			7E	7C 00332	CLRQ -(SP)		
			20	D4 00334	CLRL -(SP)		
			30	AE DD 00336	PUSHL COUNT		
				7E 7C 00339	CLRQ -(SP)		
				AE 9F 0033B	PUSHAB IOSB		
				53 DD 0033E	PUSHL FUNCTION		
				54 DD 00340	PUSHL R4		
				7E D4 00342	CLRL -(SP)		
	67 52 2B		OC 50 52	FB 00344 D0 00347 E9 0034A	CALLS #12, SYSSQIOW MOVL R0, STATUS BLBC STATUS, 35\$		0529

52	10	AE	3C	0034D	MOVZWL	IOSB, STATUS	0530
24		52	E9	00351	BLBC	STATUS, 35\$	0531
	0C	AE	D5	00354	TSTL	COUNT	0541
		25	18	00357	BGEQ	36\$	
		7E	7C	00359	CLRQ	-(SP)	0547
		7E	7C	0035B	CLRQ	-(SP)	
7E		01	7D	0035D	MOVQ	#1, -(SP)	
		7E	7C	00360	CLRQ	-(SP)	
	30	AE	9F	00362	PUSHAB	IOSB	
		53	DD	00365	PUSHL	FUNCTION	
		54	DD	00367	PUSHL	R4	
		7E	D4	00369	CLRL	-(SP)	
67		0C	FB	0036B	CALLS	#12, SYSSQIOW	
52		50	D0	0036E	MOVL	R0, STATUS	
04		52	E9	00371	BLBC	STATUS, 35\$	0548
52	10	AE	3C	00374	MOVZWL	IOSB, STATUS	0549
03		52	E8	00378	BLBS	STATUS, 36\$	0550
		009F	31	0037B	BRW	44\$	
24	08	AE	E9	0037E	BLBC	FLAGS, 39\$	0562
	2C	AE	9F	00382	PUSHAB	VALUE_DESC	0563
	0C	AE	95	00385	TSTB	FLAGS	0564
		07	18	00388	BGEQ	37\$	
50	0134	C5	9E	0038A	MOVAB	P.ABY, R0	0565
		05	11	0038F	BRB	38\$	
50	0148	C5	9E	00391	MOVAB	P.ACA, R0	0566
		50	DD	00396	PUSHL	R0	
	3C	AE	9F	00398	PUSHAB	DESC	0563
		03	DD	0039B	PUSHL	#3	
	00000000G	8F	DD	0039D	PUSHL	#SETS, DEVSET2	
66		05	FB	003A3	CALLS	#5, LIB\$SIGNAL	
	0158	C5	9F	003A6	PUSHAB	P.ACC	0573
68		01	FB	003AA	CALLS	#1, CLISPRESNT	
42		50	E9	003AD	BLBC	R0, 43\$	0578
		7E	7C	003B0	CLRQ	-(SP)	
		7E	7C	003B2	CLRQ	-(SP)	
		7E	7C	003B4	CLRQ	-(SP)	
		7E	7C	003B6	CLRQ	-(SP)	
	30	AE	9F	003B8	PUSHAB	IOSB	
		24	DD	003BB	PUSHL	#36	
		54	DD	003BD	PUSHL	R4	
		7E	D4	003BF	CLRL	-(SP)	
67		0C	FB	003C1	CALLS	#12, SYSSQIOW	
52		50	D0	003C4	MOVL	R0, STATUS	
07		52	E9	003C7	BLBC	STATUS, 40\$	0579
52	10	AE	3C	003CA	MOVZWL	IOSB, STATUS	0580
0B		52	E8	003CE	BLBS	STATUS, 41\$	0581
		52	DD	003D1	PUSHL	STATUS	0584
	38	AE	9F	003D3	PUSHAB	DESC	
		01	DD	003D6	PUSHL	#1	
		5A	DD	003D8	PUSHL	R10	
		13	11	003DA	BRB	42\$	
12	08	AE	E9	003DC	BLBC	FLAGS, 43\$	0586
	0168	C5	9F	003E0	PUSHAB	P.ACE	0587
	38	AE	9F	003E4	PUSHAB	DESC	
		02	DD	003E7	PUSHL	#2	
	00000000G	8F	DD	003E9	PUSHL	#SETS, DEVSET1	
66		04	FB	003EF	CALLS	#4, LIB\$SIGNAL	

SETDEVS
V04-000

N 14
16-Sep-1984 00:47:57
14-Sep-1984 12:09:05

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[CLIUTL.SRC]SETDEVS.B32;1

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68	0178	C5	9F	003F2	43\$:	PUSHAB	P.ACG	:	0590
3C		01	FB	003F6		CALLS	#1, CLISPRESENT	:	
		50	E9	003F9		BLBC	RO, 47\$:	
		7E	7C	003FC		CLRQ	-(SP)	:	0595
		7E	7C	003FE		CLRQ	-(SP)	:	
		7E	7C	00400		CLRQ	-(SP)	:	
		7E	7C	00402		CLRQ	-(SP)	:	
	30	AE	9F	00404		PUSHAB	IOSB	:	
		22	DD	00407		PUSHL	#34	:	
		54	DD	00409		PUSHL	R4	:	
		7E	D4	0040B		CLRL	-(SP)	:	
67		0C	FB	0040D		CALLS	#12, SYSSQIOW	:	
52		50	DD	00410		MOVL	RO, STATUS	:	
07		52	E9	00413		BLBC	STATUS, 44\$:	0596
52	10	AE	3C	00416		MOVZWL	IOSB, STATUS	:	0597
05		52	E8	0041A		BLBS	STATUS, 45\$:	0598
		52	DD	0041D	44\$:	PUSHL	STATUS	:	0599
		FC93	31	0041F		BRW	5\$:	
12	08	AE	E9	00422	45\$:	BLBC	FLAGS, 47\$:	0600
	0188	C5	9F	00426		PUSHAB	P.ACI	:	0601
	38	AE	9F	0042A		PUSHAB	DESC	:	
		02	DD	0042D		PUSHL	#2	:	
	00000000G	8F	DD	0042F		PUSHL	#SET\$ DEVSET1	:	
66		04	FB	00435	46\$:	CALLS	#4, LIB\$SIGNAL	:	
		04	00	00438	47\$:	RET		:	0605

; Routine Size: 1081 bytes, Routine Base: \$CODE\$ + 0118

```
0606 1 GLOBAL ROUTINE set$printer : NOVALUE =
0607 2 BEGIN
0608 3 ++
0609 3 Functional description
0610 3
0611 3 This is the routine for the SET PRINTER command. It is called
0612 3 from the SET command processor, and sets the characteristics of
0613 3 a printer.
0614 3
0615 3 Inputs
0616 3 None
0617 3
0618 3 Outputs
0619 3 None
0620 3
0621 3 ----
0622 3
0623 3 LOCAL
0624 3 status, | Status return
0625 3 width_desc : $BBLOCK[dsc$sc_s_bln], | /WIDTH descriptor
0626 3 page_desc : $BBLOCK[dsc$sc_s_bln], | /PAGE descriptor
0627 3 desc : $BBLOCK[dsc$sc_s_bln], | General purpose descriptor
0628 3 flags : $BBLOCK[4] INITIAL (0), | Flags longword
0629 3 info_desc : VECTOR[2], | $GETCHN descriptor
0630 3 info_block : $BBLOCK[12], | $GETCHN information block
0631 3 channel : WORD, | I/O channel
0632 3 iosb : VECTOR[4,WORD]; | I/O status block
0633 3
0634 3 BIND lp_char = info_block[dib$l_devdepend] : $BBLOCK[3];
0635 3
0636 3 Collect the name of the printer.
0637 3
0638 3 $init_dyndesc(desc); | Make the descriptors dynamic
0639 3 $init_dyndesc(width_desc);
0640 3 $init_dyndesc(page_desc);
0641 3 cli$get_value(ASCII 'DEVICE',
0642 3 desc);
0643 3
0644 3
0645 3 Assign a channel to the device.
0646 3
0647 3 IF NOT (status = $ASSIGN(DEVNAM = desc,
0648 3 CHAN = channel))
0649 3 THEN
0650 3 BEGIN
0651 3 SIGNAL(set$_writeerr, 1, desc, .status);
0652 3 RETURN;
0653 3 END;
0654 3
0655 3 Determine if it is indeed a printer
0656 3
0657 3 info_desc[0] = 12; | Set up the descriptor
0658 3 info_desc[1] = info_block; | for $GETCHN
0659 3 IF NOT (status = $GETCHN(SCDBUF = info_desc, | Issue the $GETCHN, asking for
0660 3 CHAN = .channel)) | secondary characteristics (in
0661 3 case it's spooled)
0662 3 THEN
```



```

: 668      0663      BEGIN                                ! If a problem, signal it.
: 669      0664      SIGNAL(set$_writeerr, 1, desc, .status);
: 670      0665      RETURN;
: 671      0666      END;
: 672      0667
: 673      0668      IF .info_block[dib$b_devclass] NEQU dc$_lp      ! If not a printer,
: 674      0669      THEN                                          ! signal that it's not.
: 675      0670      BEGIN
: 676      0671      SIGNAL(set$_writeerr, 1, desc,
: 677      0672      cli$_ivdevtype);
: 678      0673      END;
: 679      0674
: 680      0675      !
: 681      0676      ! Determine what characteristics to set, and whether to log it.
: 682      0677      !
: 683      0678      flags[set$_v_log] = cli$present(%ASCII 'LOG');
: 684      0679
: 685      0680      !
: 686      0681      ! Real characteristics
: 687      0682      !
: 688      0683      IF (status = cli$present(%ASCII 'FF')) NEQ cli$_absent
: 689      0684      THEN
: 690      0685      BEGIN
: 691      0686      IF .status NEQ cli$_negated
: 692      0687      THEN flags[set$_v_ff] = lp_char[lp$_v_mechform] = 1
: 693      0688      ELSE
: 694      0689      BEGIN
: 695      0690      flags[set$_v_noff] = 1;
: 696      0691      lp_char[lp$_v_mechform] = 0;
: 697      0692      END;
: 698      0693      END;
: 699      0694
: 700      0695      IF (status = cli$present(%ASCII 'CR')) NEQ cli$_absent
: 701      0696      THEN
: 702      0697      BEGIN
: 703      0698      IF .status NEQ cli$_negated
: 704      0699      THEN flags[set$_v_cr] = lp_char[lp$_v_cr] = 1
: 705      0700      ELSE
: 706      0701      BEGIN
: 707      0702      flags[set$_v_nocr] = 1;
: 708      0703      lp_char[lp$_v_cr] = 0;
: 709      0704      END;
: 710      0705      END;
: 711      0706
: 712      0707      IF (status = cli$present(%ASCII 'PASSALL')) NEQ cli$_absent
: 713      0708      THEN
: 714      0709      BEGIN
: 715      0710      IF .status NEQ cli$_negated
: 716      0711      THEN flags[set$_v_pass] = lp_char[lp$_v_passall] = 1
: 717      0712      ELSE
: 718      0713      BEGIN
: 719      0714      flags[set$_v_nopass] = 1;
: 720      0715      lp_char[lp$_v_passall] = 0;
: 721      0716      END;
: 722      0717      END;
: 723      0718
: 724      0719      IF (status = cli$present(%ASCII 'PRINTALL')) NEQ cli$_absent
```

```

: 725      0720 2 THEN
: 726      0721 2 BEGIN
: 727      0722 2 IF .status NEQ cli$_negated
: 728      0723 2 THEN flags[set$_v_print] = lp_char[lp$_v_printall] = 1
: 729      0724 2 ELSE
: 730      0725 2 BEGIN
: 731      0726 2     flags[set$_v_noprint] = 1;
: 732      0727 2     lp_char[lp$_v_printall] = 0;
: 733      0728 2 END;
: 734      0729 2 END;
: 735      0730 2
: 736      0731 2 IF (status = cli$_present(%ASCII 'WRAP')) NEQ cli$_absent
: 737      0732 2 THEN
: 738      0733 2 BEGIN
: 739      0734 2 IF .status NEQ cli$_negated
: 740      0735 2 THEN flags[set$_v_wrap] = lp_char[lp$_v_wrap] = 1
: 741      0736 2 ELSE
: 742      0737 2 BEGIN
: 743      0738 2     flags[set$_v_nowrap] = 1;
: 744      0739 2     lp_char[lp$_v_wrap] = 0;
: 745      0740 2 END;
: 746      0741 2 END;
: 747      0742 2
: 748      0743 2 IF (status = cli$_present(%ASCII 'UPPERCASE')) NEQ cli$_absent
: 749      0744 2 THEN
: 750      0745 2 BEGIN
: 751      0746 2 IF .status EQL cli$_negated
: 752      0747 2 THEN flags[set$_v_lower] = lp_char[lp$_v_lower] = 1
: 753      0748 2 ELSE
: 754      0749 2 BEGIN
: 755      0750 2     flags[set$_v_upper] = 1;
: 756      0751 2     lp_char[lp$_v_lower] = 0;
: 757      0752 2 END;
: 758      0753 2 END;
: 759      0754 2
: 760      0755 2 IF (status = cli$_present(%ASCII 'LOWERCASE')) NEQ cli$_absent
: 761      0756 2 THEN
: 762      0757 2 BEGIN
: 763      0758 2 IF .status NEQ cli$_negated
: 764      0759 2 THEN flags[set$_v_lower] = lp_char[lp$_v_lower] = 1
: 765      0760 2 ELSE
: 766      0761 2 BEGIN
: 767      0762 2     flags[set$_v_upper] = 1;
: 768      0763 2     lp_char[lp$_v_lower] = 0;
: 769      0764 2 END;
: 770      0765 2 END;
: 771      0766 2
: 772      0767 2 IF (status = cli$_present(%ASCII 'FALLBACK')) NEQ cli$_absent
: 773      0768 2 THEN
: 774      0769 2 BEGIN
: 775      0770 2 IF .status NEQ cli$_negated
: 776      0771 2 THEN flags[set$_v_fallback] = lp_char[lp$_v_fallback] = 1
: 777      0772 2 ELSE
: 778      0773 2 BEGIN
: 779      0774 2     flags[set$_v_nofallback] = 1;
: 780      0775 2     lp_char[lp$_v_fallback] = 0;
: 781      0776 2
```



```

782 0777 3      END;
783 0778 3      END;
784 0779 3
785 0780 3
786 0781 3      IF (status = cli$present(%ASCII 'TRUNCATE')) NEQ cli$_absent
787 0782 3      THEN
788 0783 3          BEGIN
789 0784 3              IF .status NEQ cli$_negated
790 0785 3              THEN flags[set$v_truncate] = lp_char[lp$v_truncate] = 1
791 0786 3              ELSE
792 0787 3                  BEGIN
793 0788 3                      flags[set$v_nottruncate] = 1;
794 0789 3                      lp_char[lp$v_truncate] = 0;
795 0790 3                  END;
796 0791 3              END;
797 0792 3
798 0793 3
799 0794 3      IF (status = cli$present(%ASCII 'TAB')) NEQ cli$_absent
800 0795 3      THEN
801 0796 3          BEGIN
802 0797 3              IF .status NEQ cli$_negated
803 0798 3              THEN flags[set$v_tab] = lp_char[lp$v_tab] = 1
804 0799 3              ELSE
805 0800 3                  BEGIN
806 0801 3                      flags[set$v_notab] = 1;
807 0802 3                      lp_char[lp$v_tab] = 0;
808 0803 3                  END;
809 0804 3              END;
810 0805 3
811 0806 3
812 0807 3      IF (status = cli$present(%ASCII 'SIXELS')) NEQ cli$_absent
813 0808 3      THEN
814 0809 3          BEGIN
815 0810 3              IF .status NEQ cli$_negated
816 0811 3              THEN flags[set$v_sixel] = lp_char[lp$v_sixel] = 1
817 0812 3              ELSE
818 0813 3                  BEGIN
819 0814 3                      flags[set$v_nosixel] = 1;
820 0815 3                      lp_char[lp$v_sixel] = 0;
821 0816 3                  END;
822 0817 3              END;
823 0818 3
824 0819 3
825 0820 3      IF (status = cli$present(%ASCII 'BITMAPPED')) NEQ cli$_absent
826 0821 3      THEN
827 0822 3          BEGIN
828 0823 3              IF .status NEQ cli$_negated
829 0824 3              THEN flags[set$v_bitmapped] = lp_char[lp$v_bitmapped] = 1
830 0825 3              ELSE
831 0826 3                  BEGIN
832 0827 3                      flags[set$v_nobitmapped] = 1;
833 0828 3                      lp_char[lp$v_bitmapped] = 0;
834 0829 3                  END;
835 0830 3              END;
836 0831 3          END;
837 0832 3
838 0833 3
```



```
896      BEGIN
897      SIGNAL(set$_valerr);
898      RETURN;
899      END;
900      info_block[dib$_devbufsiz] = .width;
901      END;
902
903      !
904      ! Set the specified characteristic.
905      !
906      P 0901      status = $QIOW(CHAN = .channel,
907      P 0902      FUNC = IOS_SETMODE,
908      P 0903      IOSB = iosb,
909      P 0904      P1 = info_block[dib$_devclass],
910      0905      P2 = 8);
911
912      0906      IF .status
913      0907      THEN status = .iosb[0];
914      0908      IF NOT .status
915      0909      THEN SIGNAL(set$_writeerr, 1, desc, .status)
916      0910
917      0911      !
918      0912      ! If /LOG, then say what was changed.
919      0913      !
920      0914      ELSE IF .flags[set$_v_log]
921      0915      THEN
922      0916      BEGIN
923      0917      IF .flags[set$_v_ff]
924      0918      THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'FF')
925      0919      ELSE IF .flags[set$_v_noff]
926      0920      THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'NOFF');
927      0921
928      0922      IF .flags[set$_v_cr]
929      0923      THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'CR')
930      0924      ELSE IF .flags[set$_v_nocr]
931      0925      THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'NOCR');
932      0926
933      0927      IF .flags[set$_v_pass]
934      0928      THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'PASSALL')
935      0929      ELSE IF .flags[set$_v_nopass]
936      0930      THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'NOPASSALL');
937      0931
938      0932      IF .flags[set$_v_print]
939      0933      THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'PRINTALL')
940      0934      ELSE IF .flags[set$_v_noprint]
941      0935      THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'NOPRINTALL');
942      0936
943      0937      IF .flags[set$_v_wrap]
944      0938      THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'WRAP')
945      0939      ELSE IF .flags[set$_v_nowrap]
946      0940      THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'NOWRAP');
947      0941
948      0942      IF .flags[set$_v_lower]
949      0943      THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'LOWERCASE')
950      0944      ELSE IF .flags[set$_v_upper]
951      0945      THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'UPPERCASE');
952      0946
953      0947
```

```
.PSECT SPLITS,NOWRT,NOEXE,2
```

[illegible]


```
00 00 52 43 0020C P.ACR: .ASCII \CR\<0><0>
010E0002 00210 P.ACQ: .LONG 17694722
00000000 00214 .ADDRESS P.ACR
00 4C 4C 41 53 53 41 50 00218 P.ACT: .ASCII \PASSALL\<0>
010E0007 00220 P.ACS: .LONG 17694727
00000000 00224 .ADDRESS P.ACT
4C 4C 41 54 4E 49 52 50 00228 P.ACV: .ASCII \PRINTALL\
010E0008 00230 P.ACU: .LONG 17694728
00000000 00234 .ADDRESS P.ACV
50 41 52 57 00238 P.ACX: .ASCII \WRAP\
010E0004 0023C P.ACW: .LONG 17694724
00000000 00240 .ADDRESS P.ACX
00 00 00 45 53 41 43 52 45 50 50 55 00244 P.ACZ: .ASCII \UPPERCASE\<0><0><0>
010E0009 00250 P.ACY: .LONG 17694729
00000000 00254 .ADDRESS P.ACZ
00 00 00 45 53 41 43 52 45 57 4F 4C 00258 P.ADB: .ASCII \LOWERCASE\<0><0><0>
010E0009 00264 P.ADA: .LONG 17694729
00000000 00268 .ADDRESS P.ADB
4B 43 41 42 4C 4C 41 46 0026C P.ADD: .ASCII \FALLBACK\
010E0008 00274 P.ADC: .LONG 17694728
00000000 00278 .ADDRESS P.ADD
45 54 41 43 4E 55 52 54 0027C P.ADF: .ASCII \TRUNCATE\
010E0008 00284 P.ADE: .LONG 17694728
00000000 00288 .ADDRESS P.ADF
00 42 41 54 0028C P.ADH: .ASCII \TAB\<0>
010E0003 00290 P.ADG: .LONG 17694723
00000000 00294 .ADDRESS P.ADH
00 00 53 4C 45 58 49 53 00298 P.ADJ: .ASCII \SIXELS\<0><0>
010E0006 002A0 P.ADI: .LONG 17694726
00000000 002A4 .ADDRESS P.ADJ
00 00 00 44 45 50 50 41 4D 54 49 42 002A8 P.ADL: .ASCII \BITMAPPED\<0><0><0>
010E0009 002B4 P.ADK: .LONG 17694729
00000000 002B8 .ADDRESS P.ADL
31 31 50 4C 002BC P.ADN: .ASCII \LP11\
010E0004 002C0 P.ADM: .LONG 17694724
00000000 002C4 .ADDRESS P.ADN
00 00 00 30 38 31 41 4C 002C8 P.ADP: .ASCII \LA180\<0><0><0>
010E0005 002D0 P.ADO: .LONG 17694725
00000000 002D4 .ADDRESS P.ADP
31 31 41 4C 002D8 P.ADR: .ASCII \LA11\
010E0004 002DC P.ADQ: .LONG 17694724
00000000 002E0 .ADDRESS P.ADR
00 4E 57 4F 4E 4B 4E 55 002E4 P.ADT: .ASCII \UNKNOWN\<0>
010E0007 002EC P.ADS: .LONG 17694727
00000000 002F0 .ADDRESS P.ADT
45 47 41 50 002F4 P.ADV: .ASCII \PAGE\
010E0004 002F8 P.ADU: .LONG 17694724
00000000 002FC .ADDRESS P.ADV
45 47 41 50 00300 P.ADX: .ASCII \PAGE\
010E0004 00304 P.ADW: .LONG 17694724
00000000 00308 .ADDRESS P.ADX
00 00 00 48 54 44 49 57 0030C P.ADZ: .ASCII \WIDTH\<0><0><0>
010E0005 00314 P.ADY: .LONG 17694725
00000000 00318 .ADDRESS P.ADZ
45 47 41 50 0031C P.AEB: .ASCII \PAGE\
010E0004 00320 P.AEA: .LONG 17694724
00000000 00324 .ADDRESS P.AEB
```

```
00 00 46 46 00328 P.AED: .ASCII \FF\<0><0>
      010E0002 0032C P.AEC: .LONG 17694722
      00000000 00330 .ADDRESS P.AED
46 46 4F 4E 00334 P.AEF: .ASCII \NOFF\
      010E0004 00338 P.AEE: .LONG 17694724
      00000000 0033C .ADDRESS P.AEF
00 00 52 43 00340 P.AEH: .ASCII \CR\<0><0>
      010E0002 00344 P.AEG: .LONG 17694722
      00000000 00348 .ADDRESS P.AEH
52 43 4F 4E 0034C P.AEJ: .ASCII \NOCR\
      010E0004 00350 P.AEI: .LONG 17694724
      00000000 00354 .ADDRESS P.AEJ
      00 4C 4C 41 53 53 41 50 00358 P.AEL: .ASCII \PASSALL\<0>
      010E0007 00360 P.AEK: .LONG 17694727
      00000000 00364 .ADDRESS P.AEL
00 00 00 4C 4C 41 53 53 41 50 00368 P.AEN: .ASCII \NOPASSALL\<0><0><0>
      010E0009 00374 P.AEM: .LONG 17694729
      00000000 00378 .ADDRESS P.AEN
      4C 4C 41 54 4E 49 52 50 0037C P.AEP: .ASCII \PRINTALL\
      010E0008 00384 P.AEO: .LONG 17694728
      00000000 00388 .ADDRESS P.AEP
00 00 4C 4C 41 54 4E 49 52 50 0038C P.AER: .ASCII \NOPRINTALL\<0><0>
      010E000A 00398 P.AEQ: .LONG 17694730
      00000000 0039C .ADDRESS P.AER
      50 41 52 57 003A0 P.AET: .ASCII \WRAP\
      010E0004 003A4 P.AES: .LONG 17694724
      00000000 003A8 .ADDRESS P.AET
      00 00 50 41 52 57 4F 4E 003AC P.AEV: .ASCII \NOWRAP\<0><0>
      010E0006 003B4 P.AEU: .LONG 17694726
      00000000 003B8 .ADDRESS P.AEV
00 00 00 45 53 41 43 52 45 57 4F 4C 003BC P.AEX: .ASCII \LOWERCASE\<0><0><0>
      010E0009 003C8 P.AEW: .LONG 17694729
      00000000 003CC .ADDRESS P.AEX
00 00 00 45 53 41 43 52 45 50 50 55 003D0 P.AEZ: .ASCII \UPPERCASE\<0><0><0>
      010E0009 003DC P.AEY: .LONG 17694729
      00000000 003E0 .ADDRESS P.AEZ
      4B 43 41 42 4C 4C 41 46 003E4 P.AFB: .ASCII \FALLBACK\
      010E0008 003EC P.AFA: .LONG 17694728
      00000000 003F0 .ADDRESS P.AFB
00 00 4B 43 41 42 4C 4C 41 46 4F 4E 003F4 P.AFD: .ASCII \NOFALLBACK\<0><0>
      010E000A 00400 P.AFC: .LONG 17694730
      00000000 00404 .ADDRESS P.AFD
      45 54 41 43 4E 55 52 54 00408 P.AFF: .ASCII \TRUNCATE\
      010E0008 00410 P.AFE: .LONG 17694728
      00000000 00414 .ADDRESS P.AFF
00 00 45 54 41 43 4E 55 52 54 4F 4E 00418 P.AFH: .ASCII \NOTRUNCATE\<0><0>
      010E000A 00424 P.AFG: .LONG 17694730
      00000000 00428 .ADDRESS P.AFH
      00 42 41 54 0042C P.AFJ: .ASCII \TAB\<0>
      010E0003 00430 P.AFI: .LONG 17694723
      00000000 00434 .ADDRESS P.AFJ
      00 00 00 42 41 54 4F 4E 00438 P.AFL: .ASCII \NOTAB\<0><0><0>
      010E0005 00440 P.AFK: .LONG 17694725
      00000000 00444 .ADDRESS P.AFL
      00 00 53 4C 45 58 49 53 00448 P.AFN: .ASCII \SIXELS\<0><0>
      010E0006 00450 P.AFM: .LONG 17694726
      00000000 00454 .ADDRESS P.AFN
```



```
53 4C 45 58 49 53 4F 4E 00458 P.AFP: .ASCII \NOSIXELS\
010E0008 00460 P.AFO: .LONG 17694728
00000000 00464 .ADDRESS P.AFP
00 00 00 44 45 50 50 41 4D 54 49 42 00468 P.AFR: .ASCII \BITMAPPED\<0><0><0>
010E0009 00474 P.AFQ: .LONG 17694729
00000000 00478 .ADDRESS P.AFR
00 44 45 50 50 41 4D 54 49 42 4F 4E 0047C P.AFT: .ASCII \NOBITMAPPED\<0>
010E000B 00488 P.AFS: .LONG 17694731
00000000 0048C .ADDRESS P.AFT
31 31 50 4C 00490 P.AFV: .ASCII \LP11\
010E0004 00494 P.AFU: .LONG 17694724
00000000 00498 .ADDRESS P.AFV
00 00 00 30 38 31 41 4C 0049C P.AFX: .ASCII \LA180\<0><0><0>
010E0005 004A4 P.AFW: .LONG 17694725
00000000 004A8 .ADDRESS P.AFX
31 31 41 4C 004AC P.AFZ: .ASCII \LA11\
010E0004 004B0 P.AFY: .LONG 17694724
00000000 004B4 .ADDRESS P.AFZ
00 4E 57 4F 4E 4B 4E 55 004B8 P.AGB: .ASCII \UNKNOWN\<0>
010E0007 004C0 P.AGA: .LONG 17694727
00000000 004C4 .ADDRESS P.AGB
45 47 41 50 004C8 P.AGD: .ASCII \PAGE\
010E0004 004CC P.AGC: .LONG 17694724
00000000 004D0 .ADDRESS P.AGD
00 00 00 48 54 44 49 57 004D4 P.AGF: .ASCII \WIDTH\<0><0><0>
010E0005 004DC P.AGE: .LONG 17694725
00000000 004E0 .ADDRESS P.AGF
```

```
OFFC 00000
5B 00000000G 00 9E 00002
5A 00000000G 8F D0 00009
59 00000000G 00 9E 00010
58 00000000G 8F D0 00017
57 00000000G 8F D0 0001E
56 00000000G 8F D0 00025
55 00000000G 00 9E 0002C
54 00000000G 00 9E 00033
53 00000000' EF 9E 0003A
5E BC AE 9E 00041
OC AE D4 00045
2C AE 020E0000 8F D0 00048
30 AE D4 00050
3C AE 020E0000 8F D0 00053
40 AE D4 0005B
34 AE 020E0000 8F D0 0005E
38 AE D4 00066
2C AE 9F 00069
53 DD 0006C
69 02 FB 0006E
7E 7C 00071
08 AE 9F 00073
38 AE 9F 00076
```

.PSECT \$CODE\$,NOWRT,2

```
.ENTRY SETSPRINTER, Save R2,R3,R4,R5,R6,R7,R8,R9,- 0606
R10,R11
MOVAB LIB$CVT DTB, R11
MOVL #SET$ WRITEERR, R10
MOVAB CLISGET_VALUE, R9
MOVL #CLIS_NEGATED, R8
MOVL #CLIS_ABSENT, R7
MOVL #SET$ DEVSET1, R6
MOVAB CLISPRESENT, R5
MOVAB LIB$SIGNAL, R4
MOVAB P.ACK, R3
MOVAB -68(SP), SP
CLRL FLAGS
MOVL #34471936, DESC
CLRL DESC+4
MOVL #34471936, WIDTH_DESC
CLRL WIDTH_DESC+4
MOVL #34471936, PAGE_DESC
CLRL PAGE_DESC+4
PUSHAB DESC
PUSHL R3
CALLS #2, CLISGET_VALUE
CLRQ -(SP)
PUSHAB CHANNEL
PUSHAB DESC
```

0607

0639

0640

0641

0642

0649

00000000G	00	04	FB	00079	CALLS	#4, SYSS\$ASSIGN	
	52	50	DO	00080	MOVL	R0, STATUS	
	1E	52	E9	00083	BLBC	STATUS, 1\$	
24	AE	0C	DO	00086	MOVL	#12, INFO_DESC	0658
28	AE	18	AE	9E 0008A	MOVAB	INFO_BLOCK, INFO_DESC+4	0659
		24	AE	9F 0008F	PUSHAB	INFO_DESC	0661
			7E	7C 00092	CLRQ	-(SP)	
			7E	D4 00094	CLRL	-(SP)	
	7E	10	AE	3C 00096	MOVZWL	CHANNEL, -(SP)	
00000000G	00	05	FB	0009A	CALLS	#5, SYSS\$GETCHN	
	52	50	DO	000A1	MOVL	R0, STATUS	
	03	52	E8	000A4 1\$:	BLBS	STATUS, 2\$	
		02FF	31	000A7	BRW	39\$	
43	8F	1C	AE	91 000AA 2\$:	CMPB	INFO_BLOCK+4, #67	0668
			10	13 000AF	BEQL	3\$	
		00000000G	8F	DD 000B1	PUSHL	#CLIS_IVDEVTYPE	0671
		30	AE	9F 000B7	PUSHAB	DESC	
			01	DD 000BA	PUSHL	#1	
			5A	DD 000BC	PUSHL	R10	
	64		04	FB 000BE	CALLS	#4, LIBSSIGNAL	
		0C	A3	9F 000C1 3\$:	PUSHAB	P.ACM	0678
	65		01	FB 000C4	CALLS	#1, CLIS\$PRESENT	
OC	AE		50	F0 000C7	INSV	R0, #0, #1, FLAGS	
01	00	18	A3	9F 000CD	PUSHAB	P.ACO	0683
	65		01	FB 000D0	CALLS	#1, CLIS\$PRESENT	
	52		50	DO 000D3	MOVL	R0, STATUS	
	57		52	D1 000D6	CMPL	STATUS, R7	
			17	13 000D9	BEQL	5\$	
	58		52	D1 000DB	CMPL	STATUS, R8	0686
			0A	13 000DE	BEQL	4\$	
20	AE		02	88 000E0	BISB2	#2, LP_CHAR	0687
OC	AE		02	88 000E4	BISB2	#2, FLAGS	
			08	11 000E8	BRB	5\$	
OC	AE		04	88 000EA 4\$:	BISB2	#4, FLAGS	0690
20	AE		02	8A 000EE	BICB2	#2, LP_CHAR	0691
		24	A3	9F 000F2 5\$:	PUSHAB	P.ACO	0695
	65		01	FB 000F5	CALLS	#1, CLIS\$PRESENT	
	52		50	DO 000F8	MOVL	R0, STATUS	
	57		52	D1 000FB	CMPL	STATUS, R7	
			17	13 000FE	BEQL	7\$	
	58		52	D1 00100	CMPL	STATUS, R8	0698
			0A	13 00103	BEQL	6\$	
20	AE		01	88 00105	BISB2	#1, LP_CHAR	0699
OC	AE		08	88 00109	BISB2	#8, FLAGS	
			08	11 0010D	BRB	7\$	
OC	AE		10	88 0010F 6\$:	BISB2	#16, FLAGS	0702
20	AE		01	8A 00113	BICB2	#1, LP_CHAR	0703
		34	A3	9F 00117 7\$:	PUSHAB	P.ACS	0707
	65		01	FB 0011A	CALLS	#1, CLIS\$PRESENT	
	52		50	DO 0011D	MOVL	R0, STATUS	
	57		52	D1 00120	CMPL	STATUS, R7	
			18	13 00123	BEQL	9\$	
	58		52	D1 00125	CMPL	STATUS, R8	0710
			0A	13 00128	BEQL	8\$	
21	AE		01	88 0012A	BISB2	#1, LP_CHAR+1	0711
OC	AE		20	88 0012E	BISB2	#32, FLAGS	
			09	11 00132	BRB	9\$	

OC	AE	40	8F	88	00134	8\$:	BISB2	#64, FLAGS	0714
21	AE		01	8A	00139		BICB2	#1, LP_CHAR+1	0715
		44	A3	9F	0013D	9\$:	PUSHAB	P.ACU	0719
	65		01	FB	00140		CALLS	#1, CLISPPRESENT	
	52		50	D0	00143		MOVL	R0, STATUS	
	57		52	D1	00146		CMPL	STATUS, R7	
			18	13	00149		BEQL	11\$	
	58		52	D1	0014B		CMPL	STATUS, R8	0722
			0B	13	0014E		BEQL	10\$	
20	AE		04	88	00150		BISB2	#4, LP_CHAR	0723
OC	AE	80	8F	88	00154		BISB2	#128, FLAGS	
			08	11	00159		BRB	11\$	
OD	AE		01	88	0015B	10\$:	BISB2	#1, FLAGS+1	0726
20	AE		04	8A	0015F		BICB2	#4, LP_CHAR	0727
		50	A3	9F	00163	11\$:	PUSHAB	P.ACW	0731
	65		01	FB	00166		CALLS	#1, CLISPPRESENT	
	52		50	D0	00169		MOVL	R0, STATUS	
	57		52	D1	0016C		CMPL	STATUS, R7	
			17	13	0016F		BEQL	13\$	
	58		52	D1	00171		CMPL	STATUS, R8	0734
			0A	13	00174		BEQL	12\$	
20	AE		10	88	00176		BISB2	#16, LP_CHAR	0735
OD	AE		02	88	0017A		BISB2	#2, FLAGS+1	
			08	11	0017E		BRB	13\$	
OD	AE		04	88	00180	12\$:	BISB2	#4, FLAGS+1	0738
20	AE		10	8A	00184		BICB2	#16, LP_CHAR	0739
		64	A3	9F	00188	13\$:	PUSHAB	P.ACY	0743
	65		01	FB	0018B		CALLS	#1, CLISPPRESENT	
	52		50	D0	0018E		MOVL	R0, STATUS	
	57		52	D1	00191		CMPL	STATUS, R7	
			19	13	00194		BEQL	15\$	
	58		52	D1	00196		CMPL	STATUS, R8	0746
			0B	12	00199		BNEQ	14\$	
20	AE	80	8F	88	0019B		BISB2	#128, LP_CHAR	0747
OD	AE		08	88	001A0		BISB2	#8, FLAGS+1	
			09	11	001A4		BRB	15\$	
OD	AE		10	88	001A6	14\$:	BISB2	#16, FLAGS+1	0750
20	AE	80	8F	8A	001AA		BICB2	#128, LP_CHAR	0751
		78	A3	9F	001AF	15\$:	PUSHAB	P.ADA	0755
	65		01	FB	001B2		CALLS	#1, CLISPPRESENT	
	52		50	D0	001B5		MOVL	R0, STATUS	
	57		52	D1	001B8		CMPL	STATUS, R7	
			19	13	001BB		BEQL	17\$	
	58		52	D1	001BD		CMPL	STATUS, R8	0758
			0B	13	001C0		BEQL	16\$	
20	AE	80	8F	88	001C2		BISB2	#128, LP_CHAR	0759
OD	AE		08	88	001C7		BISB2	#8, FLAGS+1	
			09	11	001CB		BRB	17\$	
OD	AE		10	88	001CD	16\$:	BISB2	#16, FLAGS+1	0762
20	AE	80	8F	8A	001D1		BICB2	#128, LP_CHAR	0763
		0088	C3	9F	001D6	17\$:	PUSHAB	P.ADC	0768
	65		01	FB	001DA		CALLS	#1, CLISPPRESENT	
	52		50	D0	001DD		MOVL	R0, STATUS	
	57		52	D1	001E0		CMPL	STATUS, R7	
			17	13	001E3		BEQL	19\$	
	58		52	D1	001E5		CMPL	STATUS, R8	0771
			0A	13	001E8		BEQL	18\$	

21	AE		02	88	001EA	BISB2	#2, LP_CHAR+1	0772	
0E	AE		08	88	001EE	BISB2	#8, FLAGS+2		
			08	11	001F2	BRB	19\$		
0E	AE		10	88	001F4	18\$:	BISB2	#16, FLAGS+2	0775
21	AE		02	8A	001F8	19\$:	BICB2	#2, LP_CHAR+1	0776
		0098	C3	9F	001FC	PUSHAB	P.ADE	0781	
	65		01	FB	00200	CALLS	#1, CLISPRESNT		
	52		50	D0	00203	MOVL	R0, STATUS		
	57		52	D1	00206	CMPL	STATUS, R7		
			1A	13	00209	BEQL	21\$		
	58		52	D1	0020B	CMPL	STATUS, R8	0784	
			0B	13	0020E	BEQL	20\$		
20	AE	40	8F	88	00210	BISB2	#64, LP_CHAR	0785	
0E	AE		20	88	00215	BISB2	#32, FLAGS+2		
			0A	11	00219	BRB	21\$		
0E	AE	40	8F	88	0021B	20\$:	BISB2	#64, FLAGS+2	0788
20	AE	40	8F	8A	00220	BICB2	#64, LP_CHAR	0789	
		00A4	C3	9F	00225	21\$:	PUSHAB	P.ADG	0794
	65		01	FB	00229	CALLS	#1, CLISPRESNT		
	52		50	D0	0022C	MOVL	R0, STATUS		
	57		52	D1	0022F	CMPL	STATUS, R7		
			18	13	00232	BEQL	23\$		
	58		52	D1	00234	CMPL	STATUS, R8	0797	
			0B	13	00237	BEQL	22\$		
20	AE		20	88	00239	BISB2	#32, LP_CHAR	0798	
0E	AE	80	8F	88	0023D	BISB2	#128, FLAGS+2		
			08	11	00242	BRB	23\$		
0F	AE		01	88	00244	22\$:	BISB2	#1, FLAGS+3	0801
20	AE		20	8A	00248	BICB2	#32, LP_CHAR	0802	
		00B4	C3	9F	0024C	23\$:	PUSHAB	P.ADI	0807
	65		01	FB	00250	CALLS	#1, CLISPRESNT		
	52		50	D0	00253	MOVL	R0, STATUS		
	57		52	D1	00256	CMPL	STATUS, R7		
			17	13	00259	BEQL	25\$		
	58		52	D1	0025B	CMPL	STATUS, R8	0810	
			0A	13	0025E	BEQL	24\$		
21	AE		04	88	00260	BISB2	#4, LP_CHAR+1	0811	
0F	AE		02	88	00264	BISB2	#2, FLAGS+3		
			08	11	00268	BRB	25\$		
0F	AE		04	88	0026A	24\$:	BISB2	#4, FLAGS+3	0814
21	AE		04	8A	0026E	BICB2	#4, LP_CHAR+1	0815	
		00C8	C3	9F	00272	25\$:	PUSHAB	P.ADK	0820
	65		01	FB	00276	CALLS	#1, CLISPRESNT		
	52		50	D0	00279	MOVL	R0, STATUS		
	57		52	D1	0027C	CMPL	STATUS, R7		
			17	13	0027F	BEQL	27\$		
	58		52	D1	00281	CMPL	STATUS, R8	0823	
			0A	13	00284	BEQL	26\$		
21	AE		08	88	00286	BISB2	#8, LP_CHAR+1	0824	
0F	AE		08	88	0028A	BISB2	#8, FLAGS+3		
			08	11	0028E	BRB	27\$		
0F	AE		10	88	00290	26\$:	BISB2	#16, FLAGS+3	0827
21	AE		08	8A	00294	BICB2	#8, LP_CHAR+1	0828	
		00D4	C3	9F	00298	27\$:	PUSHAB	P.ADM	0837
	65		01	FB	0029C	CALLS	#1, CLISPRESNT		
	05		50	F0	0029F	INSV	R0, #5, #1, FLAGS+1		
	06		50	E9	002A5	BLBC	R0, 28\$		

	1D	AE		01	90	002A8	MOV	#1	INFO_BLOCK+5	0838		
				3F	11	002AC	BRB	31\$				
			00E4	C3	9F	002AE	28\$:	PUSHAB	P.ADO	0839		
OD	AE	01	65	01	FB	002B2	CALLS	#1, CLISPRESENT				
			06	50	FO	002B5	INSV	R0, #6, #1, FLAGS+1				
			06	50	E9	002BB	BLBC	R0, 29\$				
	1D	AE		03	90	002BE	MOV	#3, INFO_BLOCK+5	0840			
				29	11	002C2	BRB	31\$				
			00F0	C3	9F	002C4	29\$:	PUSHAB	P.ADO	0841		
			65	01	FB	002C8	CALLS	#1, CLISPRESENT				
OD	AE	01	07	50	FO	002CB	INSV	R0, #7, #1, FLAGS+1				
			06	50	E9	002D1	BLBC	R0, 30\$				
	1D	AE		02	90	002D4	MOV	#2, INFO_BLOCK+5	0842			
				13	11	002D8	BRB	31\$				
			0100	C3	9F	002DA	30\$:	PUSHAB	P.ADS	0843		
			65	01	FB	002DE	CALLS	#1, CLISPRESENT				
OE	AE	01	00	50	FO	002E1	INSV	R0, #0, #1, FLAGS+2				
			03	50	E9	002E7	BLBC	R0, 31\$				
				1D	AE	94	002EA	CLRB	INFO_BLOCK+5	0844		
				34	AE	9F	002ED	31\$:	PUSHAB	PAGE_DESC	0849	
				010C	C3	9F	002F0	PUSHAB	P.ADO			
			69	02	FB	002F4	CALLS	#2, CLISGET_VALUE				
OE	AE	01	01	50	FO	002F7	INSV	R0, #1, #1, -FLAGS+2				
			2D	50	E9	002FD	BLBC	R0, 33\$				
				04	AE	9F	00300	PUSHAB	LENGTH	0853		
				3C	AE	DD	00303	PUSHL	PAGE_DESC+4	0854		
			7E	3C	AE	3C	00306	MOVZWL	PAGE_DESC, -(SP)	0853		
			6B	03	FB	0030A	CALLS	#3, LIB\$CVT_DTB				
			09	50	E8	0030D	BLBS	R0, 32\$				
				0118	C3	9F	00310	PUSHAB	P.ADW	0858		
				38	AE	9F	00314	PUSHAB	PAGE_DESC			
					3E	11	00317	BRB	34\$			
			000000FF	8F	04	AE	D1	00319	32\$:	0862		
					4D	14	00321	CMPL	LENGTH, #255			
					04	AE	D5	00323	BGTR	36\$	0863	
					48	19	00326	TSTL	LENGTH			
					04	AE	90	00328	BLSS	36\$		
	23	AE		04	AE	9F	0032D	33\$:	MOV	LENGTH, INFO_BLOCK+11	0869	
				3C	AE	9F	00330	PUSHAB	WIDTH_DESC	0875		
				0128	C3	9F	00330	PUSHAB	P.ADY			
			69	02	FB	00334	CALLS	#2, CLISGET_VALUE				
OE	AE	01	02	50	FO	00337	INSV	R0, #2, #1, -FLAGS+2				
			3F	50	E9	0033D	BLBC	R0, 38\$				
				08	AE	9F	00340	PUSHAB	WIDTH	0879		
				44	AE	DD	00343	PUSHL	WIDTH_DESC+4	0880		
			7E	44	AE	3C	00346	MOVZWL	WIDTH_DESC, -(SP)	0879		
			6B	03	FB	0034A	CALLS	#3, LIB\$CVT_DTB				
			11	50	E8	0034D	BLBS	R0, 35\$				
				0134	C3	9F	00350	PUSHAB	P.AEA	0884		
				40	AE	9F	00354	PUSHAB	WIDTH_DESC			
					02	DD	00357	34\$:	PUSHL	#2		
			0077132A	8F	DD	00359	PUSHL	#7803690				
				51	11	0035F	BRB	40\$				
			0000FFFF	8F	08	AE	D1	00361	35\$:	0888		
					05	14	00369	CMPL	WIDTH, #65535			
					08	AE	D5	0036B	BGTR	36\$	0889	
					0A	18	0036E	TSTL	WIDTH			
				007711EA	8F	DD	00370	36\$:	BGEQ	37\$	0892	
								PUSHL	#7803370			

		64		01	FB	00376	CALLS	#1, LIB\$SIGNAL		
				04	00379		RET			0891
	1E	AE		08	AE	80 0037A	37\$:	MOVW	WIDTH, INFO_BLOCK+6	0895
				7E	7C	0037F	38\$:	CLRQ	-(SP)	0905
				7E	7C	00381		CLRQ	-(SP)	
				08	DD	00383		PUSHL	#8	
				30	AE	9F 00385		PUSHAB	INFO_BLOCK+4	
				7E	7C	00388		CLRQ	-(SP)	
				30	AE	9F 0038A		PUSHAB	IOSB	
				23	DD	0038D		PUSHL	#35	
		7E		28	AE	3C 0038F		MOVZWL	CHANNEL, -(SP)	
				7E	D4	00393		CLRL	-(SP)	
00000000G		00		0C	FB	00395		CALLS	#12, SYSSQIOW	
		52		50	DD	0039C		MOVL	R0, STATUS	
		07		52	E9	0039F		BLBC	STATUS, 39\$	0907
		52		10	AE	3C 003A2		MOVZWL	IOSB, STATUS	0908
		0D		52	E8	003A6		BLBS	STATUS, 41\$	0909
				30	DD	003A9	39\$:	PUSHL	STATUS	0910
				AE	9F	003AB		PUSHAB	DESC	
				01	DD	003AE		PUSHL	#1	
				5A	DD	003B0		PUSHL	R10	
		64		04	FB	003B2	40\$:	CALLS	#4, LIB\$SIGNAL	
				04	003B5		RET			
		01		0C	AE	E8 003B6	41\$:	BLBS	FLAGS, 42\$	0915
				04	003BA		RET			
06	OC	AE		01	E1	003BB	42\$:	BBC	#1, FLAGS, 43\$	0918
				C3	9F	003C0		PUSHAB	P.AEC	0919
				09	11	003C4		BRB	44\$	
0E	OC	AE		02	E1	003C6	43\$:	BBC	#2, FLAGS, 45\$	0920
				C3	9F	003CB		PUSHAB	P.AEE	0921
				30	AE	9F 003CF	44\$:	PUSHAB	DESC	
				02	DD	003D2		PUSHL	#2	
				56	DD	003D4		PUSHL	R6	
		64		04	FB	003D6		CALLS	#4, LIB\$SIGNAL	
06	OC	AE		03	E1	003D9	45\$:	BBC	#3, FLAGS, 46\$	0923
				C3	9F	003DE		PUSHAB	P.AEG	0924
				09	11	003E2		BRB	47\$	
0E	OC	AE		04	E1	003E4	46\$:	BBC	#4, FLAGS, 48\$	0925
				C3	9F	003E9		PUSHAB	P.AEI	0926
				30	AE	9F 003ED	47\$:	PUSHAB	DESC	
				02	DD	003F0		PUSHL	#2	
				56	DD	003F2		PUSHL	R6	
		64		04	FB	003F4		CALLS	#4, LIB\$SIGNAL	
06	OC	AE		05	E1	003F7	48\$:	BBC	#5, FLAGS, 49\$	0928
				C3	9F	003FC		PUSHAB	P.AEK	0929
				09	11	00400		BRB	50\$	
0E	OC	AE		06	E1	00402	49\$:	BBC	#6, FLAGS, 51\$	0930
				C3	9F	00407		PUSHAB	P.AEM	0931
				30	AE	9F 0040B	50\$:	PUSHAB	DESC	
				02	DD	0040E		PUSHL	#2	
				56	DD	00410		PUSHL	R6	
		64		04	FB	00412		CALLS	#4, LIB\$SIGNAL	
				OC	AE	95 00415	51\$:	TSTB	FLAGS	0933
				06	18	00418		BGEQ	52\$	
				0198	C3	9F 0041A		PUSHAB	P.AEO	0934
				08	11	0041E		BRB	53\$	
		0E		0D	AE	E9 00420	52\$:	BLBC	FLAGS+1, 54\$	0935

			01AC	C3	9F	00424		PUSHAB	P.AEQ		0936
			30	AE	9F	00428	53\$:	PUSHAB	DESC		
				02	DD	0042B		PUSHL	#2		
				56	DD	0042D		PUSHL	R6		
		64		04	FB	0042F		CALLS	#4, LIBSSIGNAL		
06	OD	AE		01	E1	00432	54\$:	BBC	#1, FLAGS+1, 55\$		0938
			01B8	C3	9F	00437		PUSHAB	P.AES		0939
				09	11	0043B		BRB	56\$		
0E	OD	AE		02	E1	0043D	55\$:	BBC	#2, FLAGS+1, 57\$		0940
			01C8	C3	9F	00442		PUSHAB	P.AEU		0941
			30	AE	9F	00446	56\$:	PUSHAB	DESC		
				02	DD	00449		PUSHL	#2		
		64		56	DD	0044B		PUSHL	R6		
		AE		04	FB	0044D		CALLS	#4, LIBSSIGNAL		
06	OD			03	E1	00450	57\$:	BBC	#3, FLAGS+1, 58\$		0943
			01DC	C3	9F	00455		PUSHAB	P.AEW		0944
				09	11	00459		BRB	59\$		
0E	OD	AE		04	E1	0045B	58\$:	BBC	#4, FLAGS+1, 60\$		0945
			01F0	C3	9F	00460		PUSHAB	P.AEY		0946
			30	AE	9F	00464	59\$:	PUSHAB	DESC		
				02	DD	00467		PUSHL	#2		
		64		56	DD	00469		PUSHL	R6		
		AE		04	FB	0046B		CALLS	#4, LIBSSIGNAL		
06	OE			03	E1	0046E	60\$:	BBC	#3, FLAGS+2, 61\$		0948
			0200	C3	9F	00473		PUSHAB	P.AFA		0949
				09	11	00477		BRB	62\$		
0E	OE	AE		04	E1	00479	61\$:	BBC	#4, FLAGS+2, 63\$		0950
			0214	C3	9F	0047E		PUSHAB	P.AFC		0951
			30	AE	9F	00482	62\$:	PUSHAB	DESC		
				02	DD	00485		PUSHL	#2		
		64		56	DD	00487		PUSHL	R6		
		AE		04	FB	00489		CALLS	#4, LIBSSIGNAL		
06	OE			05	E1	0048C	63\$:	BBC	#5, FLAGS+2, 64\$		0953
			0224	C3	9F	00491		PUSHAB	P.AFE		0954
				09	11	00495		BRB	65\$		
0E	OE	AE		06	E1	00497	64\$:	BBC	#6, FLAGS+2, 66\$		0955
			0238	C3	9F	0049C		PUSHAB	P.AFG		0956
			30	AE	9F	004A0	65\$:	PUSHAB	DESC		
				02	DD	004A3		PUSHL	#2		
		64		56	DD	004A5		PUSHL	R6		
		AE		04	FB	004A7		CALLS	#4, LIBSSIGNAL		
			OE	AE	95	004AA	66\$:	TSTB	FLAGS+2		0958
				06	18	004AD		BGEQ	67\$		
			0244	C3	9F	004AF		PUSHAB	P.AFI		0959
				08	11	004B3		BRB	68\$		
		OE		AE	E9	004B5	67\$:	BLBC	FLAGS+3, 69\$		0960
			0254	C3	9F	004B9		PUSHAB	P.AFK		0961
			30	AE	9F	004BD	68\$:	PUSHAB	DESC		
				02	DD	004C0		PUSHL	#2		
		64		56	DD	004C2		PUSHL	R6		
		AE		04	FB	004C4		CALLS	#4, LIBSSIGNAL		
06	OF			01	E1	004C7	69\$:	BBC	#1, FLAGS+3, 70\$		0963
			0264	C3	9F	004CC		PUSHAB	P.AFM		0964
				09	11	004D0		BRB	71\$		
0E	OF	AE		02	E1	004D2	70\$:	BBC	#2, FLAGS+3, 72\$		0965
			0274	C3	9F	004D7		PUSHAB	P.AFO		0966
			30	AE	9F	004DB	71\$:	PUSHAB	DESC		

			02	DD	004DE	PUSHL	#2		
			56	DD	004E0	PUSHL	R6		
06	OF	64	04	FB	004E2	CALLS	#4, LIB\$SIGNAL		
		AE	03	E1	004E5	BBC	#3, FLAGS+3, 73\$		0968
			0288	C3	9F	PUSHAB	P.AFQ		0969
				09	11	BRB	74\$		
0E	OF	AE	04	E1	004F0	BBC	#4, FLAGS+3, 75\$		0970
			029C	C3	9F	PUSHAB	P.AFS		0971
			30	AE	9F	PUSHAB	DESC		
				02	DD	PUSHL	#2		
				56	DD	PUSHL	R6		
06	OD	64	04	FB	00500	CALLS	#4, LIB\$SIGNAL		
		AE	05	E1	00503	BBC	#5, FLAGS+1, 76\$		0973
			02A8	C3	9F	PUSHAB	P.AFU		0974
				1E	11	BRB	79\$		
06	OD	AE	06	E1	0050E	BBC	#6, FLAGS+1, 77\$		0975
			02B8	C3	9F	PUSHAB	P.AFW		0976
				13	11	BRB	79\$		
			OD	AE	95	TSTB	FLAGS+1		0977
				06	18	BGEQ	78\$		
			02C4	C3	9F	PUSHAB	P.AFY		0978
				08	11	BRB	79\$		
		OE	OE	AE	E9	BLBC	FLAGS+2, 80\$		0979
			02D4	C3	9F	PUSHAB	P.AGA		0980
			30	AE	9F	PUSHAB	DESC		
				02	DD	PUSHL	#2		
				56	DD	PUSHL	R6		
15	OE	64	04	FB	00533	CALLS	#4, LIB\$SIGNAL		
		AE	01	E1	00536	BBC	#1, FLAGS+2, 81\$		0982
			34	AE	9F	PUSHAB	PAGE_DESC		0983
			02E0	C3	9F	PUSHAB	P.AGC		
			34	AE	9F	PUSHAB	DESC		
				03	DD	PUSHL	#3		
			00000000G	8F	DD	PUSHL	#SETS DEVSET2		
				05	FB	CALLS	#5, LIB\$SIGNAL		
11	OE	64	02	E1	00550	BBC	#2, FLAGS+2, 82\$		0985
		AE	AE	9F	00555	PUSHAB	WIDTH_DESC		0986
			3C	C3	9F	PUSHAB	P.AGE		
			02F0	AE	9F	PUSHAB	DESC		
			34	AE	9F	PUSHAB	DESC		
				02	DD	PUSHL	#2		
				56	DD	PUSHL	R6		
		64	05	FB	00563	CALLS	#5, LIB\$SIGNAL		
				04	00566	RET			0990

; Routine Size: 1383 bytes, Routine Base: \$CODE\$ + 0551

SETDEVS
V04-000

F 16
16-Sep-1984 00:47:57
14-Sep-1984 12:09:05

VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]SETDEVS.B32;1

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(7)

: 997
: 998
0991 1 END
0992 0 ELUDOM

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

Name	Bytes	Attributes
\$SPLITS	1252	NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$CODES	2744	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	60	0	581	00:01.0

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS:SETDEVS/OBJ=OBJ\$:SETDEVS MSRC\$:SETDEVS/UPDATE=(ENH\$:SETDEVS)

: Size: 2744 code + 1252 data bytes
: Run Time: 00:46.7
: Elapsed Time: 02:37.8
: Lines/CPU Min: 1274
: Lexemes/CPU-Min: 21763
: Memory Used: 423 pages
: Compilation Complete

0052 AH-BT13A-SE
VAX/VMS V4.0

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